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TECHNICAL REPORT
NATICK/TR-77/029

ANTHROPOMETRY OF WOMEN OF THE U.S. ARMY - 1977

Report No. 5 - ~~Comparable~~ Data for U.S. Army Men

July 1977

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UNITED STATES ARMY
NATICK RESEARCH and DEVELOPMENT COMMAND
NATICK, MASSACHUSETTS 01760

Clothing, Equipment & Materials Engineering Laboratory

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This report, ~~the fifth~~ in a series which deals with the results of an anthropometric survey of 1331 U.S. Army women, presents comparable data resulting from the measurement of 287 Army men. The opportunity to secure measurements on male subjects made by the same technicians at the same time and place, and using precisely the same measuring techniques, provided a unique source of comparative data for the design of Army clothing, equipment, and workspaces which, increasingly, must accommodate the wide range of sizes represented by both sexes.

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20. ABSTRACT (continued)

The subjects in the men's survey was carried out at Fort Jackson, South Carolina, in early 1977. The subjects represented a homogeneous group, chiefly trainees with a median age of about 19 years. The sample was composed of approximately two-thirds Whites, one-third Blacks, and a small fraction of Orientals.

This report describes the conduct of the survey on men and includes the univariate summary statistics and frequency tables resulting from it. Data obtained in the survey included 44 of the 69 body size measurements made on Army women and 13 of an additional 24 standard body dimensions measured on the women, as well as three identical subseries of workspace, head and face, and static strength measurements. Also provided are 1473B selected bivariate frequency tables.

PREFACE

The research reported here was carried out by the Anthropology Research Project of Webb Associates in Yellow Springs, Ohio, under contract DAAG17-76-C-0010 with the U. S. Army Research and Development Command in Natick, Massachusetts. Mr. Edmund Churchill served as senior investigator and Mr. Robert M. White as project officer.

Arrangements for the survey's operations and the scheduling of subjects--both female and male--at Fort Jackson were handled efficiently and cooperatively by Lieutenant Colonel Robert D. Martin and Mr. Gordon Wingard of the Supply Division; it is the authors' pleasure to acknowledge once again the importance of their help. The actual measuring at Fort Jackson was conducted in physical facilities normally assigned to SP/4 Frances Moyer; the cheerful welcome, cooperation, and assistance provided the survey team by Fran and Sheba Moyer constitute for all involved rich and pleasant memories.

The data editing and analysis was the responsibility of Thomas Churchill. Preparation of the report for publication was undertaken by Ms. Jane Reese with the assistance of Ms. Diann O'Daniel. Ms. Ilse Tebbetts did the final editing.

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INTRODUCTION

The increasing presence of women in the ranks of the U. S. Army and, in particular, their presence in job assignments not previously open to them has created a substantial need for body size and related data for Army women. In some areas, such data will be used to create clothing, masks, and other items of personal equipment designed specifically for women. In other areas, however, design efforts will be directed toward items for use by both women and men and toward integrated systems of sizes. It is important, not only in the support of such design efforts but for the exploration of the feasibility of such efforts as well, that there exist data for men and women based on precisely the same measurement techniques. It is doubtful that there exists any method for doing this other than that of having the same measurers make the measurements on both the women and the men.

Thus when the opportunity arose, while conducting the survey of U. S. Army women, to measure a sample of young Army men using the same measuring team and the same techniques, it represented a chance to obtain comparative data unique in the history of U. S. military body size studies. This report describes the conduct of the men's subsurvey and includes the univariate summary statistics for the data obtained in it. A measurement-by-measurement comparison of the data for the men with that for the women will be provided in a later report.

Chapter I describes the conduct of the survey and provides a modest amount of background information about the sample. The next chapter defines the measurements included in the "core" series combined with subseries 1 and lists the mean, the standard deviation, the coefficient of variation, and 13 percentile values for each variable, both in metric and English units. Chapters III-V provide similar information for the measurements in the several subseries. Secondary sets of statistical information are given in the three appendices of the report. Measures of symmetry and kurtosis and standard errors of the means and standard deviations and six additional percentiles are given in Appendix A. Appendix B contains the frequency distributions, and Appendix C lists the "XVAL" computer printouts. Selected bivariate frequency tables can be found in Appendix D.

The final item in this report is the Index by Name, Anatomical Location, and Measurement Technique, which, it is hoped, will facilitate the identification and location of the measurements.

The general survey methodology and the measurement techniques were described in the first report of this series (Laubach, L. L., J. T. McConville, E. Churchill and R. M. White, Anthropometry of Women of the U. S. Army--1977, Report No. 1, Methodology and Survey Plan, Technical Report NATICK/TR-77/021, U. S. Army Natick Research and Development Command, Natick, Massachusetts, 1977); the basic statistical summaries have been given in the second report of the series (Churchill, E., T. Churchill, J. T. McConville and R. M. White, Anthropometry of Women of the U. S. Army--1977, Report No. 2, The Basic Univariate Statistics, Technical Report NATICK/TR-77/024, U. S. Army Natick Research and Development Command, Natick, Massachusetts, 1977). Over 300 bivariate frequency tables based on the women's data are presented in the third report (Churchill, T., E. Churchill, J. T. McConville and R. M. White, Anthropometry of Women of the U. S. Army--1977, Report No. 3, Bivariate Frequency Tables, Technical Report NATICK/TR-77-028, U. S. Army Natick Research and Development Command, Natick, Massachusetts, 1977).

Chapter I

THE CONDUCT OF THE SURVEY AND ITS SAMPLE

The measurement of 287 male soldiers was carried out at Fort Jackson, South Carolina, during the brief period from February 3 to February 11, 1977, following the completion of a survey of Army women. The subjects were, with one exception, men undergoing basic training who, as a rule, had been in the Army less than two weeks.

The general methodology of the survey and its staff was essentially the same as that of the anthropometric survey of U. S. Army women, a survey which had been conducted during the periods November 2 to December 3, 1976, and January 10 to February 3, 1977, at Fort Sam Houston, Fort McClellan, Walter Reed Medical Center, and Fort Jackson.

The Measurements

A significant aspect of the women's survey was the division of the measurements into a core series and four subseries: (a) additional traditional anthropometry; (b) workspace measurements; (c) head and face measurements; and (d) static strength measurements. All of the women were measured in the core series and roughly one-quarter of the women were measured with each subseries of measurements. For the men, this arrangement was changed by eliminating some measurements from the core series and the first subseries and combining the remaining elements of these two series into a set of measurements which was made on all subjects. Two measurements, midshoulder height and waist height, omphalion, which had been measured on only a few of the women, were added to this series. The measurements in the other series (workspace, head and face, and static strength) were the same for both the women and the men except for the addition of three measurements (ear length, ear breadth and biauricular breadth) to the head and face series.

The plan of making one, and just one, subseries of measurements on each subject was not followed exactly. More than one series was made on some subjects and none on others. The exact pattern in shown in Table 1.

The core and the initial subseries measurements were made during the women's survey with the subjects wearing panties and bras. It had been anticipated that these measurements would be made in the men's survey with the subjects wearing swimming trunks, but neither swimming nor gym trunks were available in adequate numbers. As a result, the men were measured wearing fatigue pants and underpants. Several measurements which we had planned to include in the men's series were

TABLE 1

DISTRIBUTION OF SAMPLE BY SUBSAMPLE MEMBERSHIP

Core - Subseries 1 only: N = 54

Core - Subseries 1 plus workspace: N = 41

Core - Subseries 1 plus head and face: N = 33

Core - Subseries 1 plus strength: N = 86

Core - Subseries 1 plus workspace and head and face: N = 57

Core - Subseries 1 plus head and face and strength: N = 8

Core - Subseries 1 plus workspace, head and face and strength: N = 4

Core - Subseries 1 plus workspace and strength: N = 4

Core - Subseries 1 total = 287

Workspace Subseries total = 106

Head and Face Subseries total = 102

Static Strength Subseries total = 102

dropped because the measurers felt it impossible to locate landmarks adequately; other measurements were clearly affected by the clothing. These measurements will be identified in Chapter II.

There were no clothing problems with the workspace and static strength subseries which were measured on both the women and the men with the subjects fully clothed. Clothing was, of course, irrelevant for the head-face subseries. It had not been possible to make the full set of head-face measurements on some women because they were wearing wigs; no similar problem arose in the men's survey.

Measuring techniques, except as they were affected by clothing, were the same in both the men's and women's surveys, and each member of the measuring team made in the men's survey only measurements she had previously made in the women's survey.

The measurements made on the men are listed in Table 2. For each variable, this table includes its full name, a short name (no longer than 18 characters) which will be used in some computer generated tables, and a sequence number. To simplify the simultaneous use of data from the men's and women's surveys, we have assigned the same sequence numbers to the variables measured in the men's survey as had been assigned to that variable in the women's survey. Since the consolidation of the core measurement and traditional anthropometry series resulted in eliminating some measurements in the men's survey there will be irregularities and gaps in the numbering sequences in the summary statistic tables, frequency distribution tables and the XVAL tables. An additional listing of the variable names appears at the end of the report in the Index by Name, Anatomical Location, and Anthropometric Technique. Here, as the name of this index suggests, each variable is listed several times: by its name, by the area of the body it measures, by its beginning and ending landmarks, and by its general class (height, breadth, circumference, and so forth).

The Computational Procedures and Statistical Summaries

The computational and data processing procedures were exactly those used for the women's data and have been explained in detail in Report No. 2 (Churchill, E., T. Churchill, J. T. McConville, and R. M. White. 1977. Anthropometry of Women of the U. S. Army--1977, Report No. 2 - The Basic Univariate Statistics. Technical Report NATICK/TR-77/024, Natick Research and Development Command, Natick, Massachusetts). The statistical summaries are, as well, those described in that report, with some differences in the manner of presentation. In Chapters II-V we have listed for each measurement its mean, standard deviation, coefficient of variation and 13 percentiles: 5th, 10th, 15th, 20th, 25th, 35th, 50th, 65th, 75th, 80th, 85th, 90th, and

TABLE 2

LIST OF MEASUREMENT NAMES AND SEQUENCE NUMBERS

	SHORT NAME	LONG NAME
9T	ACROMION-RADIALE L	ACROMION-RADIALE LENGTH
40C	ANKLE CIRCUMFERNCE	ANKLE CIRCUMFERENCE
4C	AXILLA HEIGHT	AXILLA HEIGHT
44C	BACK CURV'URE-CHEST	BACK CURVATURE-CHEST
46C	BACK CURVATURE-HIP	BACK CURVATURE-HIP
45C	BACK CURV'RE-WAIST	BACK CURVATURE-WAIST
13W	BENT KNEE HEIGHT	BENT KNEE HEIGHT,SUPINE
10W	BENT TORSO BREADTH	BENT TORSO BREADTH
9W	BENT TORSO HEIGHT	BENT TORSO HEIGHT
16T	BIACROMIAL BREADTH	BIACROMIAL BREADTH
34H	BIAURICULAR BR	BIAURICULAR BREADTH
33C	BICEPS CIRC,FLEXED	BICEPS CIRCUMFERENCE, FLEXED
23T	BICEPS CIR,RELAXED	BICEPS CIRCUMFERENCE, RELAXED
27T	BICEPS SKINFOLD	BICEPS SKINFOLD
27H	BIOCULAR BREADTH	BIOCULAR BREADTH
2H	BIT'ON-CORONAL ARC	BITRAGION-CORONAL ARC
3H	BIT'ON-FRONTAL ARC	BITRAGION-FRONTAL ARC
4H	BITR'ON-MENTON ARC	BITRAGION-MENTON ARC
5H	BIT-SUBMANDBLR ARC	BITRAGION-SUBMANDIBULAR ARC
14H	BITRAGION BREADTH	BITRAGION BREADTH
17C	BUTTOCK-KNEE LNGTH	BUTTOCK-KNEE LENGTH
8C	BUTTOCK HEIGHT	BUTTOCK HEIGHT
39C	CALF CIRCUMFERENCE	CALF CIRCUMFERENCE
27C	CHEST CIRCUMFERENCE	CHEST CIRCUMFERENCE
18C	CHEST DEPTH	CHEST DEPTH
5C	CHEST HEIGHT	CHEST HEIGHT
24H	CRINION-MENTON	CRINION-MENTON
33H	EAR BREADTH	EAR BREADTH
32H	EAR LENGTH	EAR LENGTH
16H	ECTOCANTHUS-VERTEX	ECTOCANTHUS TO VERTEX
12H	ECTOCANTHUS-WALL	ECTOCANTHUS TO WALL
14C	ELBOW-FINGERTIP LH	ELBOW-FINGERTIP LENGTH
11T	ELBOW-GRIP LENGTH	ELBOW-GRIP LENGTH
4T	ELBOW (RADIALE) HT	ELBOW (RADIALE) HEIGHT
12C	EYE HEIGHT/SITTING	EYE HEIGHT, SITTING
26H	FACE B/BIZYGOMATIC	FACE BREADTH (BIZYGOMATIC)
23H	FACE LENGTH	FACE LENGTH (SELLION-MENTON)
64C	FOOT BREADTH	FOOT BREADTH
66C	FOOT CIRCUMFERENCE	FOOT CIRCUMFERENCE
62C	FOOT LENGTH	FOOT LENGTH
5W	FUNCTIONAL LEG LN	FUNCTIONAL LEG LENGTH
3W	FUNCTIONAL RCH/EXT	FUNCTIONAL REACH EXTENDED
2W	FUNCTIONAL REACH	FUNCTIONAL REACH
17H	GLABELLA TO VERTEX	GLABELLA TO VERTEX
6H	GLABELLA TO WALL	GLABELLA TO WALL

VARIABLE NUMBER BY SUBSERIES

(C=CORE, T=TRADITIONAL, W=WORKSPACE, H=HEAD & FACE, S=STRENGTH)

TABLE 2
LIST OF MEASUREMENT NAMES AND SEQUENCE NUMBERS

	SHORT NAME	LONG NAME
7T	GLUTEAL FURROW HGT	GLUTEAL FURROW HEIGHT
58C	HAND BREADTH	HAND BREADTH
59C	HAND CIRCUMFERENCE	HAND CIRCUMFERENCE
60C	HAND LENGTH	HAND LENGTH
55C	HEAD BREADTH	HEAD BREADTH
54C	HEAD CIRCUMFERENCE	HEAD CIRCUMFERENCE
15H	HEAD HT/TRAGN-VRTX	HEAD HEIGHT (TRAGION-VERTEX)
56C	HEAD LENGTH	HEAD LENGTH
63C	HEEL-ANKLE CIRCUMF	HEEL-ANKLE CIRCUMFERENCE
30C	HIP CIRCUMFERENCE	HIP CIRCUMFERENCE
14W	HORIZ L/KNEES BENT	HORIZONTAL LENGTH, KNEES BENT
61C	INSTEP LENGTH	INSTEP LENGTH
28H	INTERPUPILLARY DIS	INTERPUPILLARY DISTANCE
42C	INTERSCYE, BACK	INTERSCYE, BACK
43C	INTERSCYE, FRONT	INTERSCYE, FRONT
11W	KNEELING HEIGHT	KNEELING HEIGHT
12W	KNEELING LEG LNGTH	KNEELING LEG LENGTH
15C	KNEE HEIGHT/SIT	KNEE HEIGHT, SITTING
5T	KNUCKLE HEIGHT	KNUCKLE HEIGHT
10H	LIP PROTRUS'N-WALL	LIP PROTRUSION TO WALL
22H	MENTON TO VERTEX	MENTON TO VERTEX
11H	MENTON TO WALL	MENTON TO WALL
30T	MIDSHOULDER HT/SIT	MIDSHOULDER HEIGHT, SITTING
25H	MINIMUM FRONTAL BR	MINIMUM FRONTAL BREADTH
31H	MOUTH BRTH/SMILING	MOUTH BREADTH, SMILING
30H	NOSE BREADTH	NOSE BREADTH
29H	NOSE LENGTH	NOSE LENGTH (SELLION-SUBNASALE)
8W	OVERHEAD RCH BRDTH	OVERHEAD REACH BREADTH
1W	OVERHEAD REACH HGT	OVERHEAD REACH HEIGHT
4W	OVERHEAD REACH/SIT	OVERHEAD REACH, SITTING
57C	PALM LENGTH	PALM LENGTH
16C	POPLITEAL HEIGHT	POPLITEAL HEIGHT
19H	PRONASALE TO VERTX	PRONASALE TO VERTEX
8H	PRONASALE TO WALL	PRONASALE TO WALL
10T	RADIALE-STYLION LH	RADIALE-STYLION LENGTH
1H	SAGITTAL ARC	SAGITTAL ARC
18H	SELLION TO VERTEX	SELLION TO VERTEX
7H	SELLION TO WALL	SELLION TO WALL
13C	SHOULDER-ELBOW LTH	SHOULDER-ELBOW LENGTH
25C	SHOULDER CIRCUMFER	SHOULDER CIRCUMFERENCE
11C	SITTING HEIGHT	SITTING HEIGHT
51C	SLEEVE INSEAM LGTH	SLEEVE INSEAM LENGTH
52C	SLEEVE OUTSEAM LTH	SLEEVE OUTSEAM LENGTH
69C	SPHYRION HEIGHT	SPHYRION HEIGHT
7W	STATURE (CLOTHED)	STATURE (CLOTHED)

VARIABLE NUMBER BY SUBSERIES
(C=CORE, T=TRADITIONAL, W=WORKSPACE, H=HEAD & FACE, S=STRENGTH)

TABLE 2
LIST OF MEASUREMENT NAMES AND SEQUENCE NUMBERS

	SHORT NAME	LONG NAME
2C	STATURE	STATURE
21H	STOMION TO VERTEX	STOMION TO VERTEX
17S	STRNGTH/1H 100CM M1	STRENGTH-ONE HANDED-DOMINANT SIDE-100 CM-MEAN I
18S	STRNGTH/1H 100CM M2	STRENGTH-ONE HANDED-DOMINANT SIDE-100 CM-MEAN II
19S	STRNGTH/1H 100CM P1	STRENGTH-ONE HANDED-DOMINANT SIDE-100 CM-PEAK I
20S	STRNGTH/1H 100CM P2	STRENGTH-ONE HANDED-DOMINANT SIDE-100 CM-PEAK II
25S	STRNGTH/1H 45CM M1 S	STRENGTH-ONE HANDED-SEATED-AT SIDE-45CM-MEAN I
26S	STRNGTH/1H 45CM M2 S	STRENGTH-ONE HANDED-SEATED-AT SIDE-45CM-MEAN II
27S	STRNGTH/1H 45CM P1 S	STRENGTH-ONE HANDED-SEATED-AT SIDE-45CM-PEAK I
28S	STRNGTH/1H 45CM P2 S	STRENGTH-ONE HANDED-SEATED-AT SIDE-45CM-PEAK II
21S	STRNGTH/1H 45CM M1 C	STRENGTH-ONE HANDED-SEATED-CENTERLINE-45CM-MEAN I
22S	STRNGTH/1H 45CM M2 C	STRENGTH-ONE HANDED-SEATED-CENTERLINE-45CM-MEAN II
23S	STRNGTH/1H 45CM P1 C	STRENGTH-ONE HANDED-SEATED-CENTERLINE-45CM-PEAK I
24S	STRNGTH/1H 45CM P2 C	STRENGTH-ONE HANDED-SEATED-CENTERLINE-45CM-PEAK II
29S	STRNGTH/2H 38CM M1	STRENGTH-TWO HANDED PULL-SEATED-38CM-MEAN I
30S	STRNGTH/2H 38CM M2	STRENGTH-TWO HANDED PULL-SEATED-38CM-MEAN II
31S	STRNGTH/2H 38CM P1	STRENGTH-TWO HANDED PULL-SEATED-38CM-PEAK I
32S	STRNGTH/2H 38CM P2	STRENGTH-TWO HANDED PULL-SEATED-38CM-PEAK II
33S	STRNGTH/2H 50CM M1	STRENGTH-TWO HANDED PULL-SEATED-50CM-MEAN I
34S	STRNGTH/2H 50CM M2	STRENGTH-TWO HANDED PULL-SEATED-50CM-MEAN II
35S	STRNGTH/2H 50CM P1	STRENGTH-TWO HANDED PULL-SEATED-50CM-PEAK I
36S	STRNGTH/2H 50CM P2	STRENGTH-TWO HANDED PULL-SEATED-50CM-PEAK II
1S	STRNGTH/2H 38CM M1	STRENGTH-TWO HANDED PULL-38 CM LEVEL-MEAN I
2S	STRNGTH/2H 38CM M2	STRENGTH-TWO HANDED PULL-38 CM LEVEL-MEAN II
3S	STRNGTH/2H 38CM P1	STRENGTH-TWO HANDED PULL-38 CM LEVEL-PEAK I
4S	STRNGTH/2H 38CM P2	STRENGTH-TWO HANDED PULL-38 CM LEVEL-PEAK II
5S	STRNGTH/2H 50CM M1	STRENGTH-TWO HANDED PULL-50 CM LEVEL-MEAN I
6S	STRNGTH/2H 50CM M2	STRENGTH-TWO HANDED PULL-50 CM LEVEL-MEAN II
7S	STRNGTH/2H 50CM P1	STRENGTH-TWO HANDED PULL-50 CM LEVEL-PEAK I
8S	STRNGTH/2H 50CM P2	STRENGTH-TWO HANDED PULL-50 CM LEVEL-PEAK II
9S	STRNGTH/2H 100CM M1	STRENGTH-TWO HANDED PULL-100 CM LEVEL-MEAN I
10S	STRNGTH/2H 100CM M2	STRENGTH-TWO HANDED PULL-100 CM LEVEL-MEAN II
11S	STRNGTH/2H 100CM P1	STRENGTH-TWO HANDED PULL-100 CM LEVEL-PEAK I
12S	STRNGTH/2H 100CM P2	STRENGTH-TWO HANDED PULL-100 CM LEVEL-PEAK II
13S	STRNGTH/2H 150CM M1	STRENGTH-TWO HANDED PUSH-150 CM LEVEL-MEAN I
14S	STRNGTH/2H 150CM M2	STRENGTH-TWO HANDED PUSH-150 CM LEVEL-MEAN II
15S	STRNGTH/2H 150CM P1	STRENGTH-TWO HANDED PUSH-150 CM LEVEL-PEAK I
16S	STRNGTH/2H 150CM P2	STRENGTH-TWO HANDED PUSH-150 CM LEVEL-PEAK II
20H	SUBNASALE TO VERTX	SUBNASALE TO VERTEX
9H	SUBNASALE TO WALL	SUBNASALE TO WALL
25T	SUBSCAPULAR SKINFD	SUBSCAPULAR SKINFOLD
3T	SUBSTERNALE HEIGHT	SUBSTERNALE HEIGHT
26T	SUPRAILIAC SKINFLD	SUPRAILIAC SKINFOLD
2T	SUPRASTERNALE HGT	SUPRASTERNALE HEIGHT
8T	TIBIALE HEIGHT	TIBIALE HEIGHT

VARIABLE NUMBER BY SUBSERIES
(C=CORE, T=TRADITIONAL, W=WORKSPACE, H=HEAD & FACE, S=STRENGTH)

TABLE 2
LIST OF MEASUREMENT NAMES AND SEQUENCE NUMBERS

	SHORT NAME	LONG NAME
13H	TRAGION TO WALL	TRAGION TO WALL
26T	TRICEPS SKINFOLD	TRICEPS SKINFOLD
47C	WAIST BACK LENGTH	WAIST BACK LENGTH
29C	WAIST CIRCUMFERNCE	WAIST CIRCUMFERENCE
19T	WAIST C, OMPHALION	WAIST CIRCUMFERENCE, OMPHALION
19C	WAIST DEPTH	WAIST DEPTH
48C	WAIST FRONT LENGTH	WAIST FRONT LENGTH
6C	WAIST HEIGHT	WAIST HEIGHT
29T	WAIST HT/OMPHALION	WAIST HEIGHT (OMHPALION)
6W	WEIGHT (CLOTHED)	WEIGHT (CLOTHED)
1C	WEIGHT	WEIGHT

VARIABLE NUMBER BY SUBSERIES
(C=CORE, T=TRADITIONAL, W=WORKSPACE, H=HEAD & FACE, S=STRENGTH)

95th. The dimensional values are given in centimeters and inches or in kilograms and pounds. Because of the relatively small sample size, percentiles below the fifth and above the 95th are not given. A few statistics--β_1 the measure of symmetry, β_2 the measure of kurtosis, standard errors of the mean and standard deviation, and the 30th, 40th, 45th, 55th, 60th, and 70th percentiles--have been relegated to Appendix A.

Staff

The measuring team was made up of the same women from the beginning of the women's survey to the end of the men's survey: Becca Fenton, Jay Frost, Leslie Metcalf, Diann O'Daniel, Becky Sikes, and Elizabeth Wheeler. These women, who had been intensively trained prior to the survey in particular blocks of measurements, made all the core, traditional anthropometry, and head and face measurements. During the period in which men were measured (as well as during the second half of the women's survey), full responsibility for the team's activities was carried by Patricia Reese. With the assistance of Linda Gronwoldt, Ms. Reese made all the workspace measurements and some of the strength measurements. Most of the strength measurements for the men were made by Dr. L. L. Laubach.

The Sample

The 287 men who made up the sample were a very homogeneous group in terms of age, rank, and length of service. With a single exception, they were trainees most of whom had been in the Army less than a month. Most reported that they were 17, 18, or 19 years of age; the median age was close to 19 years. One hundred ninety-one men or 67% were Whites, 90 or 31% Blacks, and 6 or 2% Orientals. Distributions for these variables, place of birth, and handedness are given in Table 3.

TABLE 3a

DISTRIBUTIONS BY SOCIO-MILITARY BACKGROUND VARIABLES

a. RANK

	Total	Work-space	Head & Face	Strength
E-5	1	1	--	
E-4	5	2	1	2
E-3	7	4	5	3
E-2	21	10	9	7
E-1	253	89	87	90
Total	287	106	102	102

b. AGE

	Total	Work-space	Head & Face	Strength
Over 24	8	3	1	3
24	6	2	2	0
23	18	9	6	5
22	9	3	8	1
21	19	9	7	8
20	30	11	11	13
19	55	15	15	22
18	64	26	21	24
17	75	25	30	25
16	3	3	1	1
Total	287	106	102	102

Median 19

c. LENGTH OF SERVICE

	Total	Work-space	Head & Face	Strength
12 years	1	1	0	0
1-6 months	37	17	17	12
0-1 month	249	88	85	90
Total	287	106	102	102

TABLE 3b

DISTRIBUTIONS BY SOCIO-MILITARY BACKGROUND VARIABLES

d. RACE

	Total		Work-space		Head & Face		Strength	
	N	%	N	%	N	%	N	%
White	191	66.6	68	64.2	72	70.6	67	65.7
Black	90	31.4	37	34.9	30	29.4	32	31.4
Oriental	6	2.3	1	0.9	--	--	3	2.9
Total	287		106		102		102	

e. BIRTHPLACE

	Total	Work-space	Head & Face	Strength
New England	12	4	2	4
South Atlantic	54	23	19	20
Mid-Atlantic	49	12	14	22
East North Central	50	18	22	18
East South Central	32	12	10	7
West North Central	16	10	9	5
West South Central	31	13	10	9
Mountain	9	3	3	5
Pacific	23	9	9	7
Foreign	10	2	3	5
Unascertained	1	0	1	0
Total	287	106	102	102

f. HANDEDNESS

	Total
Right Handed	234
Left Handed	33
Ambidextrous	12
Unascertained	8
Total	287

CHAPTER II

THE CORE-SUBSERIES 1 MEASUREMENTS

Forty-four of the core series of measurements and 13 of the traditional measurements (subseries 1) made on the women were included among the measurements for the men. The primary reason for the reduction of the core measurements from 69 to 44 and of the traditional measurements from 28 to 12 was to reduce the time required for making these measurements so that the time needed for the combined core-subseries 1 list of measurements would be about what the full core series had required. Despite this reduction, the present series provides a fairly comprehensive anthropometric description of the men in our survey sample. The survey blank for the combined core-subseries 1 set of measurements appears in Figure 1.

These measurements were composed of 13 standing heights: stature, axilla, chest, waist (natural waistline), waist (omphalion), buttock, sphyrion, substernale, suprasternale, elbow, knuckle, gluteal furrow and tibiale; five seated heights, sitting, eye, knee, popliteal and midshoulder; five major torso circumferences: shoulder, chest, waist (natural waistline), waist (omphalion) and hip; two leg circumferences: calf and ankle; and two arm circumferences: biceps, flexed, and biceps, relaxed, were measured. An additional seven surface measurements: interscye front, interscye back, waist front, waist back, and back curvature at chest, waist and hip level, were made on the torso. Measurements on the extremities included length, breadth and circumference on the head, the hand, and the foot, plus palm length, instep length, and heel-ankle circumference. Eight measurements involved arm or leg lengths: sleeve inseam, sleeve outseam, acromion-radiale length, radiale-stylion length, shoulder-elbow, elbow-fingertip, elbow-center of grip and buttock-knee length. Two depths, chest and waist, one breadth, biacromial breadth, and weight completed the list.

Four measurements, originally scheduled for inclusion in this series--abdominal extension depth, thigh-to-thigh breadth, bispinous breadth, and hip (trochanteric) height were deleted because of difficulties in making them on subjects wearing pants.

Waist height at omphalion and midshoulder height, sitting, which had been measured on only a small number of subjects in the women's sample, were measured on all subjects in the men's survey.

Measurements on the men were made, as we have already stated, with the subjects wearing fatigue pants. This clothing can be assumed to have had some effect on a number of the measurements, particularly weight, buttock height, popliteal height, buttock-knee length, back curvature-hip level, and hip circumference. The fatigue pants typically

ARMY CORPS ANTHROPOMETRIC SURVEY BLANK - 1976/1977

(Please print all requested information)

Subject No. _____

Name _____ Date _____ _____
(Last) (First) (Middle)

Rank _____ Location _____

MOS: Primary _____ Secondary _____

Length of Service _____ What is your primary duty? _____
(years) (months)

Age at Last Birthday _____ Command _____

Birthdate _____ Handedness: R L A
(year) (month) (day) (circle appropriate symbol)

Place of Birth _____ Estimated Nude Height _____ (inches)
State (country if other than USA)

Estimated Nude Weight _____ (pounds)

GROUP I

(Standing)

1. Stature
2. Axilla Ht
3. Suprasternale Ht
4. Chest Ht
5. Substernale Ht
6. Waist Ht/Natural
7. Waist Ht/Omphalion
8. Elbow Ht
9. Buttock Ht
10. Acromion-Radiale
11. Radiale-Stylion
12. Chest Depth

(Seated on Table)

13. Sitting Ht
14. Eye Ht
15. Midshoulder Ht
16. Knee Ht
17. Popliteal Ht
18. Shoulder-Elbow Lgth
19. Elbow-Fingertip Lgth
20. Elbow-Center of Grip Lgth
21. Buttock-Knee Lgth
22. Biacromial Breadth

GROUP II

(Seated)

23. Head Circumference
24. Head Length
25. Head Breadth
26. Hand Circumference
27. Hand Breadth
28. Hand Length
29. Palm Length
30. Abdominal Ext Depth
31. Thigh-to-Thigh Breadth

(Standing on Table)

32. Bispinous Breadth
33. Knuckle Ht
34. Gluteal Furrow Ht
35. Trochanteric Ht
36. Tibiale Ht
37. Hip Circ
38. Calf Circ
39. Ankle Circ
40. Heel-Ankle Circ
41. Foot Circ
42. Sphyrion Ht
43. Foot Length
44. Instep Length
45. Foot Breadth

GROUP III

46. Weight
47. Biceps Circ, Relaxed
48. Biceps Circ, Flexed
49. Sleeve Inseam
50. Sleeve Outseam
51. Shoulder Circ
52. Chest Circ
53. Waist Circ/Natural
54. Waist Circ/Omphalion
55. Interscye Front
56. Waist Front
57. Interscye Back
58. Waist Back
59. Back Curvature, Chest Level
60. Back Curvature, Waist Level
61. Back Curvature, Hip Level

Figure 1. The survey blank: core and subseries 1 measurements.

weigh about one kilogram; the user of these data who wishes to do so can subtract this amount from the mean and percentiles given here for weight. The effect of the clothing on the other measurements was judged to be within the accuracy of measurement. All unilateral measurements were made on the subject's right side.

Definitions of the measurements follow. The basic summary statistics are given in Table 4. In Table 4, the mean, the standard deviation, and the percentile vlaues for weight are shown in pounds in the upper line and in kilograms in the lower line. For all other measurements, the mean, the standard deviation, and the percentile values are shown in centimeters in the upper line and in inches in the lower line.

Additional statistics are included in Appendix A, frequency tables in Appendix B, and XVAL computer printouts in Appendix C. Illustrations of these measurements have been provided in both the first and second reports of this series and thus are not repeated here.

DEFINITIONS FOR THE CORE-SUBSERIES 1 MEASUREMENTS

WEIGHT: Weight of subject wearing fatigue pants.

STATURE: The vertical distance from the floor to the top of the head.

AXILLA HEIGHT: The vertical distance from the floor to the center of the armpit.

SUPRASTERNALE HEIGHT: The vertical distance from the floor to suprasternale, the lowest point of the notch in the upper edge of the breastbone.

CHEST HEIGHT: The vertical distance from the floor to the tip of the nipples.

SUBSTERNALE HEIGHT: The vertical distance from the floor to substernale, the midpoint of the lower edge of the breastbone.

ELBOW (RADIALE) HEIGHT: The vertical distance from the floor to radiale, the depression between the humerus and the radius.

KNUCKLE HEIGHT: The vertical distance from the floor to the largest knuckle where the first phalanx of the middle finger joins the palm.

WAIST HEIGHT (NATURAL): The vertical distance from the floor to the natural waist level.

BUTTOCK HEIGHT: The vertical distance from the floor to the point of maximum protrusion of the buttock.

GLUTEAL FURROW HEIGHT: The vertical distance from the floor to the furrow where the gluteal curve intersects the back of the thigh.

TIBIALE HEIGHT: The vertical distance from the floor to the proximal medial margin of the shin bone.

ACROMION-RADIALE LENGTH: The distance, parallel to the axis of the upper arm, from the tip of the shoulder blade to the uppermost point of the radius.

RADIALE-STYLION LENGTH: The distance, parallel to the axis of the forearm, from the uppermost point of the radius to the most distal point of the styloid process of the radius.

SITTING HEIGHT: The vertical distance from the sitting surface to the top of the head.

EYE HEIGHT, SITTING: The vertical distance from the sitting surface to the outer corner of the eye.

SHOULDER-ELBOW LENGTH: The vertical distance from acromion, the lateral edge of the acromial process of the shoulder, to the underside of the elbow, measured with the upper arms relaxed and the forearms and hands extended forward and horizontally.

ELBOW GRIP LENGTH: The distance parallel to the axis of the forearm from the tip of the elbow to the midpoint of the fist measured with the upper arm hanging relaxed, the forearm extended forward, and the hand grasping the fixed blade of a beam caliper.

ELBOW-FINGERTIP LENGTH: The distance from the tip of the right elbow to the tip of the middle finger, measured with the upper arm hanging relaxed, the forearm and hand extended forward and horizontally.

KNEE HEIGHT, SITTING: The vertical distance from the footrest surface to a point on the thigh five centimeters proximal to the anterior surface of the patella.

POPLITEAL HEIGHT: The vertical distance from the footrest surface to the lateral underside of the thigh where the tendon of the biceps femoris joins the lower leg.

BUTTOCK-KNEE LENGTH: The horizontal distance from the most posterior protrusion of the buttock to the most anterior point of the kneecap.

CHEST DEPTH: The depth of the torso at nipple level.

WAIST DEPTH: The anterior-posterior depth of the torso at the level of the waist.

BIACROMIAL BREADTH: The horizontal distance between the lateral edges of the acromial processes of the shoulders.

SHOULDER CIRCUMFERENCE: The horizontal circumference of the shoulders measured at the level of the greatest lateral protrusion of the deltoid muscles.

CHEST CIRCUMFERENCE: The horizontal circumference of the trunk measured with the tape passing over the nipples.

WAIST CIRCUMFERENCE (NATURAL); The horizontal circumference of the waist at the 'natural' waist level.

WAIST CIRCUMFERENCE (OMPHALION): The horizontal circumference of the waist at the level of the midpoint of the navel.

HIP CIRCUMFERENCE: The maximum circumference of the hips at the level of the maximum posterior protrusion of the buttocks, measured over fatigue pants.

BICEPS CIRCUMFERENCE, RELAXED: The circumference of the arm at the biceps level measured in a plane perpendicular to the long axis of the upper arm.

BICEPS CIRCUMFERENCE, FLEXED: The circumference of the arm at the level of the maximal protrusion of the biceps, measured with the elbow flexed 90 degrees, the upper arm horizontal, and the fist tightly clenched.

CALF CIRCUMFERENCE: The maximum circumference of the calf.

ANKLE CIRCUMFERENCE: The minimum circumference of the ankle.

INTERSCYE BACK: The surface distance across the back of the torso between points midway between the posterior edges of the armpits and the acromiale points.

INTERSCYE FRONT: The surface distance across the front of the torso between points midway between the anterior edges of the armpit and the acromiale points.

BACK CURVATURE-CHEST LEVEL: The surface distance across the back between the midaxillary lines at the level of the nipples.

BACK CURVATURE-WAIST LEVEL: The surface distance across the back between the midaxillary lines at waist level.

BACK CURVATURE-HIP LEVEL: The surface distance across the back between the midaxillary lines at the level of the maximum protrusion of the buttocks.

WAIST BACK LENGTH: The surface distance from the waist to cervicale.

WAIST FRONT LENGTH: The surface distance from the waist to the anterior neck-torso juncture.

SLEEVE INSEAM LENGTH: The distance from the anterior edge of the armpit to the little finger side of the wrist, measured with the arm slightly abducted, the palm held forward, and the tape tense.

SLEEVE OUTSEAM LENGTH: The distance from acromiale to the thumb side of the wrist measured with the arm slightly abducted, the palm held forward, and the tape tense.

HEAD CIRCUMFERENCE: The maximum circumference of the head measured with the tape passing above the brow ridges and nuchale.

HEAD LENGTH: The maximum length of the head from the most anterior point between the brow ridges to the occiput.

HEAD BREADTH: The maximum breadth of the head above the level of the ears.

HAND LENGTH: The distance from the wrist crease to dactylion, measured parallel to the long axis of the hand.

PALM LENGTH: The distance from the wrist crease to the skin crease at the base of the third finger, measured parallel to the long axis of the hand.

HAND BREADTH: The breadth across the distal ends of the metacarpale bones.

HAND CIRCUMFERENCE: The circumference measured around the metacarpal-phalangeal joints.

FOOT LENGTH: The length of the foot measured parallel to its long axis.

INSTEP LENGTH: The distance measured parallel to the long axis of the foot, from the level of the heel to the point of maximum medial protuberance of the foot.

FOOT BREADTH: The maximum breadth of the foot as measured at right angles to its long axis.

FOOT CIRCUMFERENCE: The circumference of the foot as measured around the distal ends of the protuberances of the metatarsal bones.

HEEL-ANKLE CIRCUMFERENCE: The diagonal circumference of the foot measured with the tape passing under the tip of the heel and over the instep at the foot-leg junction.

SPHYRION HEIGHT: The height of the most distal extension of the tibia on the inside of the foot.

MIDSHOULDER HEIGHT: The vertical distance from the seated surface to the point on the shoulder midway between acromion and the shoulder-neck intersection.

WAIST HEIGHT (OMPHALION): The vertical distance from the floor to the middle of the navel.

TABLE 4

BASIC SUMMARY STATISTICS
THE CORE-SUBSERIES 1 MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
1C WEIGHT													
156.02	24.22	15.5%	122.4	130.1	133.5	138.1	143.4	151.3	161.2	172.6	183.5	192.7	200.2
70.77	10.98	287	55.5	59.0	60.6	62.7	65.0	68.6	73.1	78.3	83.2	87.4	90.8
2C STATURE													
174.07	6.82	3.9%	162.8	165.6	167.3	169.8	171.7	174.1	176.5	178.4	180.8	182.6	185.3
68.53	2.68	287	64.1	65.2	65.9	66.8	67.6	68.5	69.5	70.2	71.2	71.9	73.0
4C AXILLA HEIGHT													
131.24	5.89	4.5%	121.5	123.9	125.4	127.5	129.2	131.3	133.4	135.1	137.2	138.7	140.9
51.67	2.32	287	47.8	48.8	49.4	50.2	50.9	51.7	52.5	53.2	54.0	54.6	55.5
2T SUPRASTERNALE HEIGHT													
142.70	6.09	4.3%	132.6	135.0	136.6	138.8	140.5	142.7	145.0	146.7	148.9	150.4	152.7
56.18	2.40	287	52.2	53.2	53.8	54.6	55.3	56.2	57.1	57.8	58.6	59.2	60.1
5C CHEST HEIGHT													
127.43	5.67	4.5%	117.9	120.1	121.6	123.7	125.4	127.5	129.6	131.2	133.2	134.5	136.5
50.17	2.23	287	46.4	47.3	47.9	48.7	49.4	50.2	51.0	51.7	52.4	53.0	53.7
3T SUBSTERNALE HEIGHT													
122.57	5.49	4.5%	113.4	115.7	117.1	119.1	120.8	122.8	124.7	126.2	128.2	129.5	131.5
48.25	2.16	287	44.7	45.5	46.1	46.9	47.5	48.3	49.1	49.7	50.5	51.0	51.8
4T ELBOW (RADIALE) HEIGHT													
109.40	5.05	4.6%	101.0	103.0	104.3	106.1	107.5	109.4	111.3	112.7	114.5	115.8	117.8
43.07	1.99	287	39.8	40.6	41.1	41.8	42.3	43.1	43.8	44.4	45.1	45.6	46.4
5T KNUCKLE HEIGHT													
75.51	4.11	5.5%	68.8	70.3	71.3	72.8	73.9	75.5	77.0	78.2	79.7	80.7	82.2
29.73	1.62	287	27.1	27.7	28.1	28.7	29.1	29.7	30.3	30.8	31.4	31.8	32.4
6C WAIST HEIGHT													
104.12	5.75	5.5%	94.0	96.6	98.0	100.1	101.8	104.1	106.4	108.1	110.2	111.6	113.6
40.99	2.26	287	37.2	38.0	38.6	39.4	40.1	41.0	41.9	42.6	43.4	43.9	44.7
8C BUTTOCK HEIGHT													
89.41	5.07	5.7%	80.8	82.8	84.1	86.1	87.6	89.5	91.4	92.8	94.5	95.7	97.6
35.20	2.00	287	31.8	32.6	33.1	33.9	34.5	35.3	36.0	36.5	37.2	37.7	38.4

TABLE 4

BASIC SUMMARY STATISTICS
THE CORE-SUBSERIES 1 MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
7T GLUTEAL FURROW HEIGHT													
80.37	4.42	5.5%	73.3	74.8	75.8	77.3	78.6	80.3	81.9	83.2	84.9	86.0	87.7
31.64	1.74	287	28.8	29.4	29.8	30.4	30.9	31.6	32.3	32.8	33.4	33.9	34.5
8T TIBIALE HEIGHT													
48.31	2.77	5.7%	43.5	44.8	45.5	46.6	47.3	48.4	49.4	50.2	51.1	51.8	52.8
19.02	1.09	283	17.1	17.6	17.9	18.3	18.6	19.0	19.4	19.7	20.1	20.4	20.8
9T ACROMION-RADIALE LENGTH													
33.74	1.82	5.4%	30.8	31.4	31.9	32.5	33.0	33.7	34.4	35.0	35.7	36.1	36.8
13.28	.72	287	12.1	12.4	12.6	12.8	13.0	13.3	13.6	13.8	14.0	14.2	14.5
10T RADIALE-STYLION LENGTH													
26.84	1.57	5.9%	24.4	25.0	25.3	25.8	26.2	26.8	27.4	27.9	28.5	29.0	29.6
10.57	.62	287	9.6	9.8	10.0	10.2	10.3	10.5	10.8	11.0	11.2	11.4	11.7
11C SITTING HEIGHT													
89.34	3.63	4.1%	83.5	84.9	85.8	87.0	88.0	89.3	90.6	91.7	93.0	94.0	95.4
35.17	1.43	287	32.9	33.4	33.8	34.3	34.6	35.2	35.7	36.1	36.6	37.0	37.6
12C EYE HEIGHT, SITTING													
77.42	3.39	4.4%	72.0	73.3	74.1	75.3	76.1	77.3	78.6	79.6	80.9	81.8	83.2
30.48	1.34	287	28.3	28.9	29.2	29.6	30.0	30.4	30.9	31.3	31.8	32.2	32.8
13C SHOULDER-ELBOW LENGTH													
36.32	1.85	5.1%	33.3	34.0	34.5	35.1	35.6	36.3	37.0	37.5	38.2	38.7	39.5
14.30	.73	287	13.1	13.4	13.6	13.8	14.0	14.3	14.6	14.8	15.1	15.2	15.5
11T ELBOW-GRIP LENGTH													
34.97	1.96	5.6%	31.7	32.5	33.0	33.7	34.2	35.0	35.7	36.2	36.9	37.5	38.3
13.77	.77	287	12.5	12.8	13.0	13.3	13.5	13.8	14.1	14.3	14.5	14.8	15.1
14C ELBOW-FINGERTIP LENGTH													
47.77	2.47	5.2%	43.8	44.9	45.4	46.2	46.9	47.7	48.5	49.4	50.3	51.0	52.0
18.81	.97	287	17.3	17.7	17.9	18.2	18.4	18.8	19.1	19.4	19.8	20.1	20.5
15C KNEE HEIGHT, SITTING													
55.10	3.02	5.5%	50.2	51.4	52.1	53.2	54.0	55.1	56.2	57.1	58.2	59.0	60.2
21.69	1.19	287	19.8	20.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.2	23.7

TABLE 4

BASIC SUMMARY STATISTICS
THE CORE-SUBSERIES 1 MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
16C POPLITEAL HEIGHT													
44.27	2.72	6.1%	39.7	40.8	41.5	42.5	43.3	44.3	45.3	46.1	47.1	47.7	48.7
17.43	1.07	287	15.6	16.1	16.3	16.7	17.0	17.4	17.8	18.1	18.5	18.8	19.2
17C BUTTOCK-KNEE LENGTH													
60.78	3.07	5.1%	55.7	56.8	57.6	58.7	59.6	60.8	62.0	62.9	64.0	64.8	65.8
23.93	1.21	287	21.9	22.4	22.7	23.1	23.5	23.9	24.4	24.8	25.2	25.5	25.9
18C CHEST DEPTH													
21.68	2.00	9.2%	18.9	19.4	19.7	20.2	20.6	21.4	22.2	23.0	23.9	24.6	25.5
8.54	.79	287	7.5	7.6	7.8	7.9	8.1	8.4	8.8	9.0	9.4	9.7	10.1
19C WAIST DEPTH													
20.29	2.25	11.1%	17.5	17.9	18.2	18.6	19.1	19.8	20.8	21.6	22.7	23.5	24.8
7.99	.89	280	6.9	7.0	7.2	7.3	7.5	7.8	8.2	8.5	8.9	9.3	9.8
16T BIACROMIAL BREADTH													
39.46	1.98	5.0%	36.1	36.9	37.4	38.1	38.7	39.5	40.3	40.9	41.5	42.0	42.6
15.53	.78	287	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.1	16.4	16.5	16.8
25C SHOULDER CIRCUMFERENCE													
113.92	6.14	5.5%	101.4	103.2	104.5	106.5	108.2	110.6	113.1	115.0	117.4	119.1	121.5
43.67	2.42	287	39.9	40.6	41.1	41.9	42.6	43.5	44.5	45.3	46.2	46.9	47.8
27C CHEST CIRCUMFERENCE													
92.90	6.60	7.1%	83.8	85.2	86.2	87.9	89.5	91.9	94.7	97.0	100.2	102.4	105.6
36.58	2.60	287	33.0	33.6	34.0	34.6	35.2	36.2	37.3	38.2	39.4	40.3	41.6
29C WAIST CIRCUMFERENCE													
78.08	8.04	10.2%	68.8	70.2	71.1	72.8	74.4	76.9	80.1	82.9	86.8	89.8	94.5
30.97	3.17	287	27.1	27.6	28.0	28.7	29.3	30.3	31.5	32.6	34.2	35.3	37.2
19T WAIST CIRCUMFERENCE, OMPHALION													
78.87	8.29	10.5%	68.4	70.4	71.7	73.4	74.8	76.5	79.5	83.1	87.0	91.5	95.9
31.05	3.27	287	26.9	27.7	28.2	28.9	29.4	30.1	31.3	32.7	34.3	36.0	37.8
30C HIP CIRCUMFERENCE													
95.14	6.04	6.4%	87.3	88.3	89.1	90.5	91.9	94.1	96.7	98.8	101.7	103.8	106.9
37.46	2.38	287	34.4	34.8	35.1	35.6	36.2	37.0	38.1	38.9	40.1	40.9	42.1

TABLE 4

BASIC SUMMARY STATISTICS
THE CORE-SUBSERIES 1 MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
23T BICEPS CIRCUMFERENCE, RELAXED													
29.16	2.77	9.5%	24.8	25.6	26.2	27.2	28.0	29.0	30.2	31.1	32.1	32.9	33.9
11.48	1.09	287	9.8	10.1	10.3	10.7	11.0	11.4	11.9	12.2	12.7	12.9	13.4
33C BICEPS CIRCUMFERENCE, FLEXED													
31.38	2.71	8.7%	27.0	27.9	28.5	29.4	30.2	31.3	32.4	33.2	34.3	35.0	36.0
12.35	1.07	287	10.6	11.0	11.2	11.6	11.9	12.3	12.8	13.1	13.5	13.8	14.2
39C CALF CIRCUMFERENCE													
35.83	2.80	7.8%	31.0	32.4	33.0	33.9	34.6	35.6	36.7	37.6	38.8	39.7	40.9
14.10	1.10	287	12.4	12.8	13.0	13.3	13.6	14.0	14.5	14.8	15.3	15.6	16.1
40C ANKLE CIRCUMFERENCE													
21.71	1.42	6.6%	19.3	19.8	20.2	20.7	21.2	21.7	22.3	22.7	23.1	23.5	24.0
8.55	.56	287	7.6	7.8	7.9	8.2	8.3	8.6	8.8	8.9	9.1	9.2	9.5
42C INTERSCYE, BACK													
41.02	2.81	6.9%	36.5	37.4	38.1	39.1	39.9	41.0	42.1	43.0	44.0	44.8	45.9
16.15	1.11	287	14.4	14.7	15.0	15.4	15.7	16.1	16.6	16.9	17.3	17.6	18.1
43C INTERSCYE, FRONT													
36.67	1.96	5.3%	33.5	34.1	34.6	35.3	35.8	36.6	37.4	38.0	38.8	39.3	40.1
14.44	.77	287	13.2	13.4	13.6	13.9	14.1	14.4	14.7	15.0	15.3	15.5	15.8
44C BACK CURVATURE-CHEST													
45.17	3.37	7.5%	40.5	41.2	41.7	42.6	43.4	44.7	46.1	47.3	48.9	50.0	51.5
17.78	1.33	287	16.0	16.2	16.4	16.8	17.1	17.6	18.2	18.6	19.2	19.7	20.3
45C BACK CURVATURE-WAIST													
38.96	4.28	11.0%	33.5	34.4	35.0	36.0	36.9	38.2	39.7	41.0	43.0	44.5	47.0
15.34	1.68	287	13.2	13.6	13.8	14.2	14.5	15.0	15.6	16.2	16.9	17.5	18.5
46C BACK CURVATURE-HIP													
46.57	3.13	6.7%	42.4	43.0	43.4	44.2	44.9	46.0	47.4	48.5	49.9	51.0	52.5
18.33	1.23	287	16.7	16.9	17.1	17.4	17.7	18.1	18.7	19.1	19.7	20.1	20.7
47C WAIST BACK LENGTH													
44.90	3.20	7.1%	39.6	40.7	41.5	42.6	43.6	44.9	46.2	47.1	48.4	49.2	50.3
17.68	1.26	287	15.6	16.0	16.3	16.8	17.2	17.7	18.2	18.6	19.0	19.4	19.8

TABLE 4

BASIC SUMMARY STATISTICS
THE CORE-SUBSERIES 1 MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
48C WAIST FRONT LENGTH													
41.05	3.03	7.4%	36.1	37.1	37.9	38.9	39.8	41.0	42.2	43.1	44.3	45.1	46.2
16.16	1.19	287	14.2	14.6	14.9	15.3	15.7	16.1	16.6	17.0	17.4	17.7	18.2
51C SLEEVE INSEAM LENGTH													
48.26	2.73	5.7%	43.9	44.9	45.5	46.4	47.2	48.2	49.2	50.1	51.1	51.8	52.9
19.00	1.07	287	17.3	17.7	17.9	18.3	18.6	19.0	19.4	19.7	20.1	20.4	20.8
52C SLEEVE OUTSEAM LENGTH													
58.77	3.23	5.5%	53.6	54.9	55.5	56.6	57.4	58.6	59.9	60.9	62.3	63.2	64.5
23.14	1.27	287	21.2	21.6	21.9	22.3	22.6	23.1	23.6	24.0	24.5	24.9	25.4
54C HEAD CIRCUMFERENCE													
56.01	1.63	2.9%	53.2	53.9	54.3	55.0	55.4	56.1	56.7	57.1	57.7	58.0	58.6
22.05	.64	287	21.0	21.2	21.4	21.6	21.8	22.1	22.3	22.5	22.7	22.9	23.1
55C HEAD BREADTH													
15.06	.54	3.6%	14.2	14.4	14.5	14.7	14.9	15.1	15.3	15.4	15.6	15.7	16.0
5.93	.21	287	5.6	5.7	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.3
56C HEAD LENGTH													
19.47	.70	3.6%	18.3	18.6	18.8	19.0	19.2	19.5	19.7	19.9	20.2	20.3	20.6
7.66	.28	287	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.1
57C PALM LENGTH													
10.75	.58	5.4%	9.8	10.0	10.2	10.4	10.5	10.8	11.0	11.2	11.4	11.5	11.7
4.23	.23	287	3.9	3.9	4.0	4.1	4.1	4.2	4.3	4.4	4.5	4.5	4.6
58C HAND BREADTH													
8.92	.43	4.8%	8.3	8.4	8.5	8.6	8.7	8.9	9.1	9.2	9.4	9.5	9.7
3.51	.17	287	3.3	3.3	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.8	3.8
59C HAND CIRCUMFERENCE													
21.11	1.00	4.7%	19.5	19.9	20.1	20.5	20.7	21.1	21.5	21.8	22.2	22.4	22.8
8.31	.39	287	7.7	7.8	7.9	8.1	8.2	8.3	8.5	8.6	8.7	8.8	9.0
60C HAND LENGTH													
19.00	.99	5.2%	17.4	17.6	18.0	18.3	18.6	19.0	19.4	19.7	20.1	20.3	20.6
7.48	.39	287	6.9	7.0	7.1	7.2	7.3	7.5	7.6	7.8	7.9	8.0	8.1

TABLE 4

BASIC SUMMARY STATISTICS
THE CORE-SUBSERIES 1 MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
61C INSTEP LENGTH													
19.71	1.18	6.0%	17.7	18.2	18.5	18.9	19.2	19.7	20.2	20.5	21.0	21.2	21.7
7.76	.46	286	7.0	7.2	7.3	7.4	7.6	7.8	7.9	8.1	8.3	8.4	8.5
62C FOOT LENGTH													
26.76	1.33	5.0%	24.5	25.0	25.4	25.9	26.2	26.8	27.3	27.7	28.2	28.5	28.9
10.53	.52	286	9.7	9.9	10.0	10.2	10.3	10.5	10.8	10.9	11.1	11.2	11.4
63C HEEL-ANKLE CIRCUMFERENCE													
34.02	1.74	5.1%	31.3	31.9	32.3	32.9	33.3	33.9	34.6	35.2	35.9	36.4	37.0
13.39	.69	287	12.3	12.6	12.7	12.9	13.1	13.4	13.6	13.8	14.1	14.3	14.6
64C FOOT BREADTH													
9.92	.56	5.7%	9.0	9.2	9.4	9.6	9.7	9.9	10.1	10.3	10.5	10.7	10.9
3.90	.22	286	3.6	3.6	3.7	3.8	3.8	3.9	4.0	4.1	4.1	4.2	4.3
66C FOOT CIRCUMFERENCE													
25.15	1.29	5.1%	23.2	23.6	23.9	24.3	24.6	25.1	25.6	26.0	26.6	26.9	27.4
9.90	.51	287	9.1	9.3	9.4	9.6	9.7	9.9	10.1	10.2	10.5	10.6	10.8
69C SPHYRION HEIGHT													
7.38	.61	8.3%	6.4	6.6	6.7	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4
2.91	.24	286	2.5	2.6	2.7	2.7	2.8	2.9	3.0	3.1	3.2	3.2	3.3
29T WAIST HEIGHT, OMPHALION													
105.47	5.27	5.0%	96.6	98.8	100.1	102.0	103.5	105.4	107.4	109.0	111.0	112.3	114.2
41.52	2.07	287	38.0	38.9	39.4	40.2	40.7	41.5	42.3	42.9	43.7	44.2	45.0
30T MIDSHOULDER HT/SIT													
61.39	3.03	4.9%	56.0	57.7	58.4	59.4	60.2	61.3	62.5	63.4	64.6	65.4	66.6
24.17	1.19	287	22.3	22.7	23.0	23.4	23.7	24.1	24.6	25.0	25.4	25.7	26.2

CHAPTER II

SUBSERIES 2: THE WORKSPACE MEASUREMENTS

The 14 workspace measurements which constituted subseries 2 were measured on a sample of 106 men. There were no differences in the measurements or the measurement procedures from those used in the women's survey. Subjects were fully clothed in all instances. For the men, clothing always consisted of fatigues and boots. The measurements in this series are listed on its survey blank, Figure 2.

Like the total sample, the workspace subsample consisted mainly of trainees, over four-fifths with ratings of E-1. The subsample was almost two-thirds White and about one-third Black, and like the full sample, had a median age rather close to 19 years. The following figures provide a comparison of the statures and weights of the total sample and this subsample:

	Workspace Subsample	Total Sample
Weight	$\bar{X}$ = 69.66 σ = 9.85 (kg)	$\bar{X}$ = 70.92 σ = 11.01 (kg)
Stature	$\bar{X}$ = 174.06 σ = 6.44 (cm)	$\bar{X}$ = 174.07 σ = 6.82 (cm)

Definitions of these measurements appear on the following pages. Summary statistics are given in Table 5. In Table 5, the mean, the standard deviation, and the percentile values for weight are shown in pounds in the upper line and in kilograms in the lower line. For all other measurements, the mean, the standard deviation, and the percentile values are shown in centimeters in the upper line and in inches in the lower line.

Additional statistics are included in Appendix A, frequency tables in Appendix B, and XVAL computer printouts in Appendix C. Illustrations of these measurements have been provided in both the first and second reports of this series and thus are not repeated here.

ARMY CORPS ANTHROPOMETRIC SURVEY BLANK - 1976/1977

(Please print all requested information)

Subject No._____ Social Security No._____

Name_____ Location_____
(Last) (First) (Middle)

Shoes_____

Boots_____

Sub-Series #2

Anthropometry of Working Positions

1. Weight_____			
2. Stature_____			
3. Functional Reach_____			
4. Functional Reach, Extended_____			
5. Overhead Reach Height_____			
6. Overhead Reach Breadth_____			
7. Bent Torso Height_____			
8. Bent Torso Breadth_____			
9. Overhead Reach, Sitting_____			
10. Functional Leg Length _____			
11. Kneeling Height_____			
12. Kneeling Leg Length_____			
13. Bent Knee Height, Supine_____			
14. Horizontal Length, Knees Bent_____			

15. _____			
16. _____			
17. _____			
18. _____			

Figure 2. The survey blank: workspace subseries.

DEFINITIONS FOR THE WORKSPACE MEASUREMENTS

OVERHEAD REACH HEIGHT: The vertical distance from the floor to the highest point on the first phalanges when the subject stands 15 centimeters in from the wall, his arms extended overhead, fists together and against the wall and the first phalanges horizontal.

FUNCTIONAL REACH: The horizontal distance from the wall to the tip of the thumb measured with the subject's back against the wall, his arm horizontal, and the tip of the index finger touching the palm of the thumb.

FUNCTIONAL REACH, EXTENDED: The distance from the wall to the tip of the right thumb measured with the left shoulder in firm contact with the wall, the right shoulder extended as far as possible, the arm held horizontal and the tip of the index finger touching the palm of the thumb.

OVERHEAD REACH, SITTING: The height of the tip of the middle finger above the sitting surface measured with the subject sitting erect, his right side against a wall, left hand in his lap, his right arm and hand extended upward and his palm against the wall.

FUNCTIONAL LEG LENGTH: The distance along the main axis of the leg from the bottom of the foot to the posterior torso surface, measured with the leg extended and the knee straightened using an anthropometer whose base is in firm contact with the foot's plantar surface.

WEIGHT (CLOTHED): The weight of the subject wearing normal indoor apparel.

STATURE (CLOTHED): The distance from the floor to the top of the head measured with the subject wearing normal indoor apparel.

OVERHEAD REACH BREADTH: The maximum breadth across the arms or shoulders, whichever is wider, measured as the subject stands with his toes 15 centimeters from a wall, his arms extended overhead, fists touching each other and against the wall, and the first phalanges horizontal.

BENT TORSO HEIGHT: The distance from the floor to the top of the head measured as the subject stands, his feet 12 inches apart, the palms of his hands on his kneecaps, and his head as close to the Frankfort plane as possible.

BENT TORSO BREADTH: The maximum breadth of the shoulders measured as the subject stands, his feet 12 inches apart, the palms of his hands on his kneecaps, and his head as close to the Frankfort plane as possible.

KNEELING HEIGHT: The distance from the floor to the top of the head measured as the subject kneels with his toes extended and touching a wall, his torso erect, his arms hanging loosely, and his head in a Frankfort plane.

KNEELING LEG LENGTH: The distance measured as the subject kneels, his toes extended and touching a wall, and his torso erect from the wall to the anterior portion of the knee.

BENT KNEE HEIGHT: The height of the highest point on the knee when the subject lies supine, his knees raised so that the angle between the upper and lower legs approximates 60 degrees and his toes touch a wall.

HORIZONTAL LENGTH, KNEES BENT: The distance from vertex to the tip of the toes when the subject lies supine, his knees raised so that the angle between the upper and lower legs approximates 60 degrees and his toes touch a wall.

TABLE 5

BASIC SUMMARY STATISTICS
THE WORK SPACE MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
1W OVERHEAD REACH HEIGHT													
215.10	9.42	4.4%	200.4	203.5	205.7	208.8	211.5	215.1	218.8	221.6	225.1	227.4	230.5
84.69	3.71	106	78.9	80.1	81.0	82.2	83.3	84.7	86.1	87.2	88.6	89.5	90.8
2W FUNCTIONAL REACH													
79.75	4.12	5.2%	72.6	74.3	75.3	76.9	78.2	79.9	81.5	82.7	84.2	85.1	86.4
31.40	1.62	106	28.6	29.2	29.7	30.3	30.8	31.5	32.1	32.6	33.2	33.5	34.0
3W FUNCTIONAL REACH EXTENDED													
91.86	5.22	5.7%	84.2	85.5	86.5	88.0	89.4	91.4	93.6	95.4	97.6	99.1	101.2
36.17	2.06	106	33.2	33.7	34.0	34.7	35.2	36.0	36.9	37.6	38.4	39.0	39.8
4W OVERHEAD REACH, SITTING													
136.88	5.85	4.3%	127.9	130.4	131.8	133.5	134.9	136.7	138.6	140.3	142.6	144.3	146.9
53.89	2.30	106	50.3	51.3	51.9	52.6	53.1	53.8	54.6	55.2	56.1	56.8	57.9
5W FUNCTIONAL LEG LENGTH													
118.55	5.24	4.4%	110.6	111.4	112.2	114.8	116.6	118.6	120.6	122.0	123.8	125.6	127.7
46.67	2.06	106	43.5	43.9	44.2	45.2	45.9	46.7	47.5	48.0	48.7	49.5	50.3
6W WEIGHT (CLOTHED)													
159.10	21.83	13.7%	129.1	133.8	137.3	143.1	148.4	156.3	165.1	172.2	181.6	188.5	198.8
72.17	9.90	106	58.6	60.7	62.3	64.9	67.3	70.9	74.9	78.1	82.5	85.5	90.2
7W STATURE (CLOTHED)													
177.95	6.26	3.5%	168.5	170.6	171.9	173.3	175.5	177.6	180.4	182.1	184.3	186.2	189.0
70.06	2.46	106	66.4	67.2	67.7	68.2	69.1	69.9	71.0	71.7	72.6	73.3	74.4
8W OVERHEAD REACH BREADTH													
38.50	2.05	5.3%	35.2	35.9	36.4	37.1	37.7	38.5	39.3	39.9	40.6	41.1	41.9
15.16	.81	106	13.9	14.1	14.3	14.6	14.8	15.2	15.5	15.7	16.0	16.2	16.5
9W BENT TORSO HEIGHT													
137.28	7.27	5.3%	125.6	127.7	129.3	131.8	134.0	137.1	140.3	142.7	145.6	147.4	149.8
54.05	2.86	106	49.4	50.3	50.9	51.9	52.8	54.0	55.2	56.2	57.3	58.1	59.0
10W BENT TORSO BREADTH													
44.72	2.25	5.0%	40.9	42.0	42.6	43.4	44.0	44.8	45.5	46.1	46.9	47.4	48.3
17.61	.88	106	16.1	16.5	16.8	17.1	17.3	17.6	17.9	18.2	18.5	18.7	19.0

TABLE 5

BASIC SUMMARY STATISTICS
THE WORK SPACE MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
11W KNEELING HEIGHT													
129.19	4.56	3.5%	121.9	123.6	124.7	126.2	127.4	129.0	130.8	132.2	134.0	135.2	136.9
50.86	1.79	106	48.0	48.7	49.1	49.7	50.1	50.8	51.5	52.0	52.8	53.2	53.9
12W KNEELING LEG LENGTH													
69.36	3.64	5.3%	63.9	65.0	65.6	67.0	68.0	69.5	70.9	71.6	73.0	74.1	75.5
27.31	1.43	106	25.2	25.6	25.8	26.4	26.8	27.3	27.9	28.2	28.8	29.2	29.7
13W BENT KNEE HEIGHT, SUPINE													
49.06	2.69	5.5%	44.7	45.5	46.2	47.1	47.9	49.0	50.2	51.0	52.0	52.7	53.5
19.31	1.06	106	17.6	17.9	18.2	18.5	18.9	19.3	19.7	20.1	20.5	20.7	21.1
14W HORIZONTAL LENGTH, KNEES BENT													
161.20	6.71	4.2%	150.8	152.5	153.7	155.9	157.9	160.8	163.8	166.2	169.0	170.8	173.0
63.46	2.64	106	59.4	60.0	60.5	61.4	62.2	63.3	64.5	65.4	66.5	67.2	68.1
1C WEIGHT-NUDE													
153.24	21.67	14.1%	123.1	127.8	131.4	137.5	142.9	150.9	159.6	166.6	175.8	182.3	192.2
69.51	9.83	106	55.8	58.0	59.6	62.4	64.8	68.4	72.4	75.6	79.8	82.7	87.2
2C STATURE-NUDE													
174.09	6.44	3.7%	163.9	166.3	167.8	169.9	171.5	173.9	176.4	178.3	180.8	182.5	184.8
68.54	2.53	106	64.5	65.5	66.1	66.9	67.5	68.5	69.4	70.2	71.2	71.9	72.7

CHAPTER IV

SUBSERIES 3: THE HEAD AND FACE MEASUREMENTS

Thirty-four head and face measurements were made on a subsample of 102 men in addition to the three basic head measurements--head length, head breadth, and head circumference--which were made on the entire sample. Measurements and measurement techniques were the same for the men as for the women. The survey blank for this series (Figure 3) lists these 34 measurements.

The 102 men who constituted the subsample did not differ significantly from the total sample. The two groups were predominantly trainees and about 30 percent Black. The median age for each sample was close to 19 years. A comparison of the subsample and the full sample with respect to the basic head measurements is illustrated by the following figures:

	Head and Face Subsample	Total Subsample
Head Length	$\bar{X} = 19.48$ $\sigma = 0.65$ (cm)	$\bar{X} = 19.47$ $\sigma = 0.70$ (cm)
Head Breadth	$\bar{X} = 14.97$ $\sigma = 0.49$ (cm)	$\bar{X} = 15.06$ $\sigma = 0.54$ (cm)
Head Circumference	$\bar{X} = 55.88$ $\sigma = 1.55$ (cm)	$\bar{X} = 56.01$ $\sigma = 1.63$ (cm)

Half (16 out of 34) of the subseries measurements were made with the headboard illustrated in Figure 4. These provide vertical and horizontal coordinates relative to the top and the back of the head for five points in the profile: menton, subnasale, pronasale, sellion (the deepest point in the nasal root depression), and glabella (a point on the forehead between the brow ridges) and for two non-profile points: ectocanthus (the outer corner of the eye) and tragion (the cartilaginous notch just forward of the ear hole). The two other headboard measurements were the vertical distance to the point of contact of the lips in the profile plane (stomion) and the horizontal distance to the most posterior point in the profile plane of either lip.

Ten measurements were distances between points in the profile plane--crinion-menton, sellion-menton, sellion-subnasale--or breadths across the face--biocular, interpupillary, mouth, nose, face, bitragion, and minimum frontal. Four measurements were arc lengths measured from right tragion to left tragion with a tape which passed variously over the top of the head, across the forehead, under the chin, and under the jaw. A fifth arc length was measured across the head from front to back (glabella to nuchale). The remaining three measurements which had not been taken on most of the women were ear length, ear breadth and biauricular breadth.

ARMY CORPS ANTHROPOMETRIC SURVEY BLANK - 1976/1977

(Please print all requested information)

Subject No._____ Social Security No._____

Name_____ Location_____
(Last) (First) (Middle)

Sub-Series #3

Head and Face

(Headboard)

1. Menton to Wall_____
2. Stomion to Wall_____
3. Subnasale to Wall_____
4. Pronasale to Wall_____
5. Sellion to Wall_____
6. Glabella to Wall_____
7. Ectocanthus to Wall_____
8. Tragion to Wall_____

9. Menton to Vertex_____
10. Stomion to Vertex_____
11. Subnasale to Vertex_____
12. Pronasale to Vertex_____
13. Sellion to Vertex_____
14. Glabella to Vertex_____
15. Ectocanthus to Vertex_____
16. Tragion to Vertex_____

17. Crinion-Menton_____
18. Sellion-Menton_____
19. Sellion-Subnasale_____
20. Biocular Breadth_____
21. Interpupillary Distance_____
22. Mouth Breadth, Smiling_____
23. Nose Breadth_____
24. Face Breadth_____
25. Bitragion Breadth_____
26. Minimum-Frontal Br_____
27. Sagittal Arc_____
28. Bitragion-Coronal Arc_____
29. Bitragion-Frontal Arc_____
30. Bitragion-Menton Arc_____
31. Bitragion-Submandibular Arc_____

32. Ear length_____
33. Ear breadth_____
34. Biauricular breadth_____

Figure 3. The survey blank: head and face subseries.

Figure 4. Headboard.

Definitions of the measurements appear in the following pages. Statistical summaries for the 34 measurements in this subseries and for the three basic head measurements (as measured on the subsample) appear in Table 6. In Table 6, the mean, the standard deviation, and the percentile values for each measurement are shown in centimeters in the upper line and in inches in the lower line.

Additional statistics are included in Appendix A, frequency tables in Appendix B, and XVAL computer printouts in Appendix C. Illustrations of these measurements have been provided in both the first and second reports of this series and thus are not repeated here.

DEFINITIONS FOR THE HEAD AND FACE MEASUREMENTS

SAGITTAL ARC: The distance over the top of the head from glabella (the most anterior point between the brow ridges) to nuchale (the lowest point palpable at the base of the occiput) measured with the tape as close to the scalp as possible.

BITRAGION-CORONAL ARC: The distance from right tragion (the notch just forward of the ear hole) to left tragion, measured across the top of the head.

BITRAGION-FRONTAL ARC: The distance from right tragion (the notch just forward of the ear hole) to left tragion, measured across the forehead.

BITRAGION-MENTON ARC: The distance from right tragion (the notch just forward of the ear hole) to left tragion, measured with the tape passing under the tip of the chin.

BITRAGION-SUBMANDIBULAR ARC: The distance from right tragion (the notch just forward of the ear hole) to left tragion, measured with the tape passing under the gonial angles of the jaw and over the jaw-neck juncture.

GLABELLA TO WALL: The distance from the most anterior point between the brow ridges to the coronal plane tangent to the back of the head.

SELLION TO WALL: The distance from the deepest point in the nasal root depression to the coronal plane tangent to the back of the head.

PRONASALE TO WALL: The distance from the tip of the nose to the coronal plane tangent to the back of the head.

SUBNASALE TO WALL: The distance from the base of the nasal septum to the coronal plane tangent to the back of the head.

LIP PROTRUSION TO WALL: The distance from the most anterior point of the lips to the coronal plane tangent to the back of the head.

MENTON TO WALL: The distance from the tip of the chin to the coronal plane tangent to the back of the head.

ECTOCANTHUS TO WALL: The distance from the outer corner of the eye to the coronal plane tangent to the back of the head.

TRAGION TO WALL: The distance from the cartilaginous notch just forward of the ear hole to the coronal plane tangent to the back of the head.

BITRAGION BREADTH: The breadth of the head between the notches just forward of the ear holes.

HEAD HEIGHT (TRAGION-VERTEX): The distance from the cartilaginous notch just forward of the ear hole to the level of the top of the head.

ECTOCANTHUS TO VERTEX: The distance from the outer corner of the eye to the level of the top of the head.

GLABELLA TO VERTEX: The distance from the most anterior point between the brow ridges to the top of the head.

SELLION TO VERTEX: The distance from the deepest point in the nasal root depression to the top of the head.

PRONASALE TO VERTEX: The distance from the tip of the nose to the top of the head.

SUBNASALE TO VERTEX: The distance from the base of the nasal septum to the level of the top of the head.

STOMION TO VERTEX: The distance from the point of contact of the lips in the midsagittal plane to the top of the head.

MENTON TO VERTEX: The distance from the tip of the chin to the level of the top of the head.

FACE LENGTH (SELLION-MENTON): The vertical distance from the deepest point in the nasal root depression to the tip of the chin.

CRINION-MENTON: The vertical distance from the tip of the chin to the midsagittal point of the hairline.

MINIMUM FRONTAL BREADTH: The breadth of the forehead between the greatest indentations of the temporal crests above the brow ridges.

FACE BREADTH (BIZYGOMATIC): The breadth of the face across the zygomatic arches.

BIOCULAR BREADTH: The distance between the outer corners of the eyes.

INTERPUPILLARY DISTANCE: The distance between the centers of the pupils.

NOSE LENGTH (SELLION-SUBNASALE): The distance from the lowest point in the nasal root depression to the base of the nasal septum.

NOSE BREADTH: The maximum breadth of the nose.

MOUTH BREADTH, SMILING: The distance between the corners of the mouth, measured while the subject smiles broadly.

EAR LENGTH: The maximum length of the ear along its major axis.

EAR BREADTH: The maximum breadth of the ear in a plane perpendicular to its major axis.

BIAURICULAR BREADTH: The distance from the most lateral point of the right ear to the corresponding point of the left ear.

TABLE 6

BASIC SUMMARY STATISTICS
THE HEAD AND FACE MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
1H SAGITTAL ARC													
34.80	1.50	4.3%	32.7	33.2	33.5	33.9	34.2	34.7	35.2	35.7	36.4	36.8	37.5
13.70	.59	102	12.9	13.1	13.2	13.3	13.5	13.7	13.9	14.1	14.3	14.5	14.8
2H BITRAGION-CORONAL ARC													
34.12	1.26	3.7%	31.9	32.4	32.7	33.2	33.6	34.2	34.7	35.1	35.5	35.7	36.1
13.43	.50	102	12.6	12.8	12.9	13.1	13.2	13.5	13.7	13.8	14.0	14.1	14.2
3H BITRAGION-FRONTAL ARC													
29.31	1.07	3.7%	27.6	28.0	28.2	28.6	28.9	29.3	29.7	30.1	30.5	30.7	31.1
11.54	.42	102	10.9	11.0	11.1	11.3	11.4	11.5	11.7	11.8	12.0	12.1	12.3
4H BITRAGION-MENTON ARC													
31.10	1.30	4.2%	29.0	29.4	29.6	30.1	30.5	31.1	31.7	32.2	32.5	32.7	33.1
12.24	.51	102	11.4	11.6	11.7	11.9	12.0	12.2	12.5	12.7	12.8	12.9	13.0
5H BITRAGION-SUBMANDIBULAR ARC													
28.63	1.28	4.5%	26.7	26.9	27.2	27.5	28.1	28.7	29.2	29.6	30.1	30.4	30.7
11.27	.51	102	10.5	10.6	10.7	10.8	11.1	11.3	11.5	11.7	11.9	12.0	12.1
6H GLABELLA TO WALL													
19.61	.71	3.7%	18.5	18.8	18.9	19.1	19.3	19.6	19.8	20.0	20.3	20.5	20.8
7.72	.28	102	7.3	7.4	7.5	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2
7H SELLION TO WALL													
19.49	.70	3.6%	18.4	18.6	18.8	19.1	19.2	19.5	19.7	19.9	20.1	20.3	20.7
7.67	.28	102	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.1
8H PRONASALE TO WALL													
22.20	.75	3.4%	21.0	21.2	21.4	21.7	21.9	22.2	22.5	22.7	23.0	23.2	23.4
8.74	.29	102	8.3	8.4	8.4	8.5	8.6	8.7	8.9	8.9	9.1	9.1	9.2
9H SUBNASALE TO WALL													
20.87	.78	3.8%	19.6	19.9	20.1	20.3	20.6	20.9	21.1	21.3	21.6	21.8	22.2
8.22	.31	102	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7
10H LIP PROTRUSION TO WALL													
20.91	1.00	4.8%	19.4	19.7	19.9	20.2	20.5	20.8	21.2	21.5	22.0	22.3	22.8
8.23	.39	102	7.7	7.8	7.8	8.0	8.1	8.2	8.4	8.5	8.6	8.8	9.0

TABLE 6

BASIC SUMMARY STATISTICS
THE HEAD AND FACE MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
11H MENTON TO WALL													
20.22	1.11	5.5%	18.6	18.9	19.1	19.4	19.7	20.1	20.6	20.9	21.4	21.7	22.2
7.96	.44	102	7.3	7.4	7.5	7.6	7.8	7.9	8.1	8.2	8.4	8.5	8.7
12H ECTOCANTHUS TO WALL													
17.50	.75	4.3%	16.3	16.5	16.7	17.0	17.2	17.5	17.8	18.0	18.2	18.4	18.7
6.89	.29	102	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4
13H TRAGION TO WALL													
10.32	.71	6.9%	9.2	9.4	9.6	9.9	10.0	10.3	10.6	10.8	11.1	11.3	11.5
4.06	.28	102	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5
14H BITRAGION BREADTH													
13.50	.59	4.4%	12.5	12.7	12.9	13.1	13.3	13.5	13.8	13.9	14.1	14.3	14.5
5.32	.23	102	4.9	5.0	5.1	5.2	5.2	5.3	5.4	5.5	5.6	5.6	5.7
15H HEAD HEIGHT (TRAGION-VERTEX)													
13.39	.68	5.1%	12.3	12.5	12.7	13.0	13.2	13.4	13.6	13.8	14.0	14.2	14.4
5.27	.27	102	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.7
16H ECTOCANTHUS TO VERTEX													
11.04	.79	7.2%	9.8	10.1	10.2	10.5	10.7	11.0	11.3	11.6	11.9	12.1	12.4
4.35	.31	102	3.9	4.0	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.8	4.9
17H GLABELLA TO VERTEX													
7.90	.86	10.8%	6.5	6.8	6.9	7.3	7.5	7.9	8.3	8.6	8.9	9.0	9.4
3.11	.34	102	2.6	2.7	2.7	2.9	3.0	3.1	3.3	3.4	3.5	3.6	3.7
18H SELLION TO VERTEX													
9.06	1.00	10.3%	8.2	8.3	8.5	8.8	9.2	9.7	10.0	10.3	10.8	11.0	11.3
3.80	.39	102	3.2	3.3	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.3	4.5
19H PRONASALE TO VERTEX													
13.14	1.07	8.1%	11.6	11.8	12.0	12.3	12.6	13.0	13.5	13.9	14.3	14.6	15.1
5.17	.42	102	4.6	4.7	4.7	4.9	5.0	5.1	5.3	5.5	5.6	5.8	5.9
20H SUBNASALE TO VERTEX													
14.49	.95	6.6%	13.0	13.3	13.5	13.8	14.1	14.4	14.8	15.2	15.6	15.8	16.2
5.70	.38	102	5.1	5.2	5.3	5.4	5.5	5.7	5.8	6.0	6.1	6.2	6.4

TABLE 6

BASIC SUMMARY STATISTICS
THE HEAD AND FACE MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
21H STOMION TO VERTEX													
16.86	1.00	5.9%	15.4	15.7	15.8	16.1	16.4	16.8	17.2	17.5	18.0	18.3	18.7
6.64	.39	102	6.1	6.2	6.2	6.4	6.5	6.6	6.8	6.9	7.1	7.2	7.4
22H MENTON TO VERTEX													
21.34	1.00	4.7%	19.9	20.2	20.4	20.6	20.9	21.2	21.6	22.0	22.4	22.7	23.2
8.40	.39	102	7.8	7.9	8.0	8.1	8.2	8.4	8.5	8.7	8.8	8.9	9.1
23H FACE LENGTH (SELLION-MENTON)													
11.70	.68	5.8%	10.6	10.8	11.0	11.2	11.4	11.7	12.0	12.2	12.5	12.6	12.8
4.61	.27	102	4.2	4.3	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1
24H CRINION-MENTON													
18.52	.85	4.6%	17.1	17.4	17.6	18.0	18.2	18.6	18.9	19.1	19.4	19.6	19.9
7.29	.33	102	6.7	6.9	6.9	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8
25H MINIMUM FRONTAL BREADTH													
11.13	.80	7.2%	9.9	10.1	10.2	10.5	10.8	11.2	11.5	11.8	12.1	12.2	12.4
4.38	.32	102	3.9	4.0	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.8	4.9
26H FACE BREADTH (BIZYGOMATIC)													
13.75	.52	3.8%	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.2	14.3	14.4	14.5
5.42	.21	102	5.0	5.1	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7
27H BIOCULAR BREADTH													
10.12	.49	4.9%	9.3	9.5	9.6	9.8	10.0	10.1	10.3	10.5	10.6	10.7	10.9
3.98	.19	102	3.7	3.7	3.8	3.9	3.9	4.0	4.1	4.1	4.2	4.2	4.3
28H INTERPUPILLARY DISTANCE													
5.89	.48	8.2%	5.1	5.3	5.4	5.5	5.7	5.9	6.1	6.2	6.4	6.5	6.7
2.32	.19	102	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.6	2.6
29H NOSE LENGTH (SELLION-SUBNASALE)													
4.97	.36	7.2%	4.4	4.5	4.6	4.7	4.8	4.9	5.1	5.2	5.4	5.5	5.6
1.96	.14	102	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.2
30H NOSE BREADTH													
3.72	.47	12.8%	3.0	3.1	3.2	3.4	3.5	3.7	3.9	4.1	4.3	4.4	4.6
1.46	.19	102	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8

TABLE 6

BASIC SUMMARY STATISTICS
THE HEAD AND FACE MEASUREMENTS

MEAN	STD DEV	-V- -N-	- - - THE PERCENTILES - - - 5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
31H MOUTH BREADTH, SMILING													
6.47	.72	11.1%	5.4	5.5	5.7	5.9	6.1	6.4	6.8	7.0	7.3	7.5	7.7
2.55	.28	102	2.1	2.2	2.2	2.3	2.4	2.5	2.7	2.8	2.9	2.9	3.1
32H EAR LENGTH													
6.22	.44	7.1%	5.5	5.7	5.8	6.0	6.1	6.2	6.4	6.5	6.7	6.8	6.9
2.45	.17	102	2.2	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.6	2.7	2.7
33H EAR BREADTH													
4.34	.36	8.4%	3.8	3.9	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.8	5.0
1.71	.14	102	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0
34H BIAURICULAR BREADTH													
17.07	.87	4.9%	16.5	16.8	17.0	17.3	17.5	17.8	18.2	18.4	18.6	19.0	19.4
7.04	.34	102	6.5	6.6	6.7	6.8	6.9	7.0	7.2	7.3	7.4	7.5	7.6
54C HEAD CIRCUMFERENCE													
55.67	1.55	2.8%	53.4	53.9	54.3	54.8	55.3	55.8	56.4	56.9	57.5	57.9	58.4
22.00	.61	102	21.0	21.2	21.4	21.6	21.8	22.0	22.2	22.4	22.6	22.8	23.0
55C HEAD BREADTH													
14.97	.49	3.3%	14.1	14.2	14.4	14.7	14.8	15.0	15.2	15.3	15.5	15.6	15.7
5.90	.19	102	5.6	5.6	5.7	5.8	5.8	5.9	6.0	6.0	6.1	6.2	6.2
56C HEAD LENGTH													
19.48	.65	3.4%	18.5	18.7	18.9	19.1	19.2	19.4	19.7	19.9	20.2	20.3	20.6
7.67	.26	102	7.3	7.4	7.4	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.1

Chapter V

SUBSERIES 4: STATIC STRENGTH MEASUREMENTS

A sample of 102 men served as subjects for a series of static strength measurements made with a University of Michigan strength monitor (Figure 5). Nine sets of measurements, listed on the survey blank shown in Figure 6, were made twice on each subject, yielding both mean and peak strength values. Four of the measurements were two-handed exertions, the subject standing and the handle being located at 38 centimeters, 50 centimeters, 100 centimeters, and 150 centimeters above the floor. Two additional two-handed measurements were made with the subject seated and the handle at 38 centimeters or 50 centimeters above the floor. All six of these measurements were made with the rope in the midsagittal plane. The other three measurements were one-handed pulls--the subject used whichever arm he reported as being his dominant one. One was a pull with the subject standing, with the D-ring 100 centimeters above the floor and on the subject's side. The remaining two were both made with the subject seated and the D-ring 45 centimeters above the floor, one with the grip at the subject's side and the other with it in the midsagittal plane.

The subjects were generally run in pairs or, occasionally, three's. When this was done, at each position both (or all three) made their first efforts after which, in the same subject sequence, they made their second efforts. This procedure provided a reasonable time for the subject to relax between efforts without adding to the total time needed for each subject. The measurements were not, as a rule, made in the sequence shown on the survey blank. Rather, at the completion of each subject's or group of subjects' measurements, the handle or D-ring was not changed and the next subject began with the arrangement with which the last subject finished. In addition to saving some time and effort, this procedure can be assumed to have spread out over the series of measurements much of the effects of novelty and weariness.

The mean values were obtained by integrating the measured exertion over a three-second period starting two seconds after the monitor sensed a force of 10 pounds (4.5 kilograms). The peak values for each subject were the maximum forces noted during each of the two periods in which a force was being exerted.

In reporting the strength data, the conventional units of kilograms and pounds have been used. However, in accordance with the International System of Units, generally known as SI, the correct unit for reporting kilograms or pounds of force is the newton. The kilogram-force values reported here may be converted to newtons by multiplying by 9.806, while the pound-force values may be converted to newtons by multiplying by 4.448.

Definitions of the strength measurements appear on the following pages. Statistics for these measurements are given in Table 7, with frequency tables in Appendix B, and XVAL printouts in Appendix C.

Fifteen of the subjects were left-handed. One subject reported he was ambidextrous; he was tested using his right arm for the single arm exertions. The subsample for this series was, as were the other subsamples, mainly trainees with a median age of approximately 19 years. Thirty-two (31%) were Blacks, 67 (66%) Whites, and 3 (3%) Orientals.

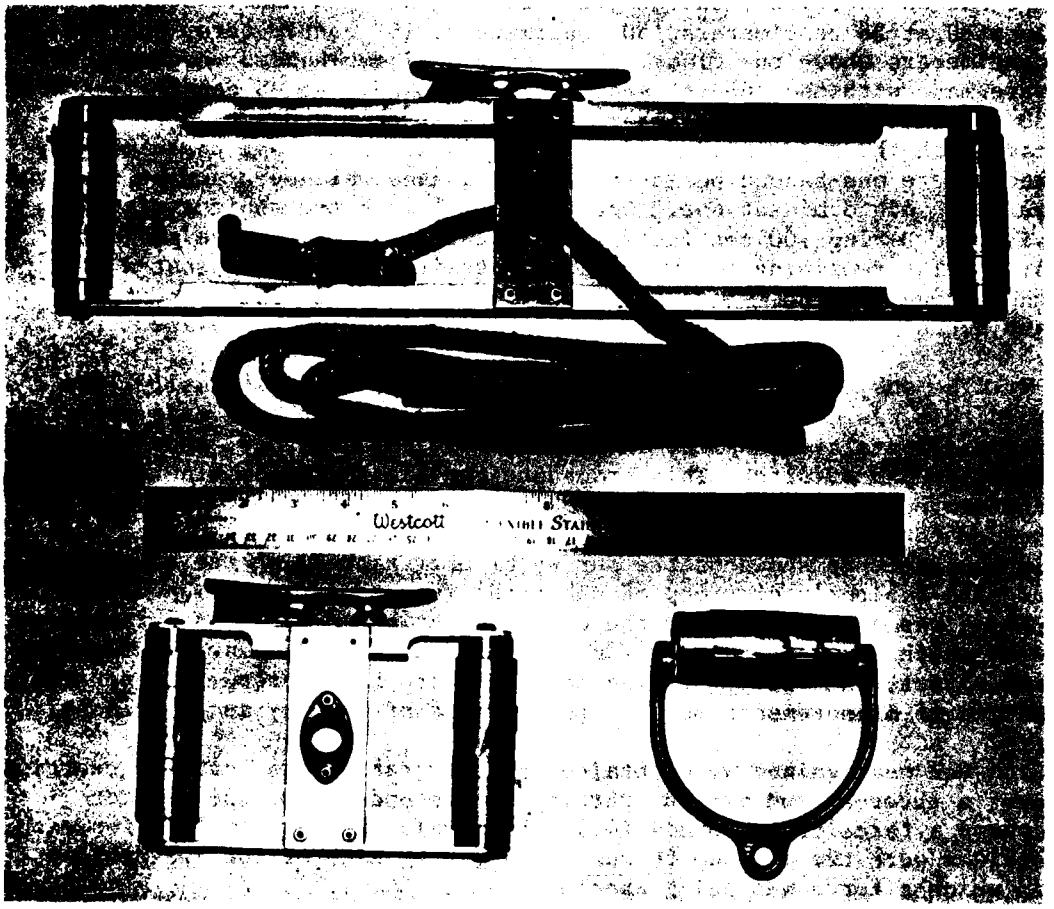

Figure 5. Strength-measuring handles.

ARMY CORPS ANTHROPOMETRIC SURVEY BLANK - 1976/1977

(Please print all requested information)

Subject No._____ Social Security No._____

Name_____ Location_____
(Last) (First) (Middle)

Handedness R L A
(circle appropriate symbol)

Sub-Series #4

Static Muscle Strength (lbs of force)

		T_1	T_2
1. Standing Two-Handed Lift 38 cm Above Floor Long Handle (Bent Knee)	Average Peak		
2. Standing Two-Handed Lift 50 cm Above Floor *Long Handle* (Straight Knee)	Average Peak		
3. Standing Two-Handed Lift 100 cm Above Floor Long Handle	Average Peak		
4. Standing Two-Handed Lift 150 cm Above Floor Long Handle	Average Peak		
5. Standing One-Handed Lift 100 cm Above Floor "D" Ring	Average Peak		
6. Seated One-Handed Pull Centerline of Seat 45 cm Above Floor "D" Ring	Average Peak		

Figure 6a. The survey blank: static muscle strength subseries.

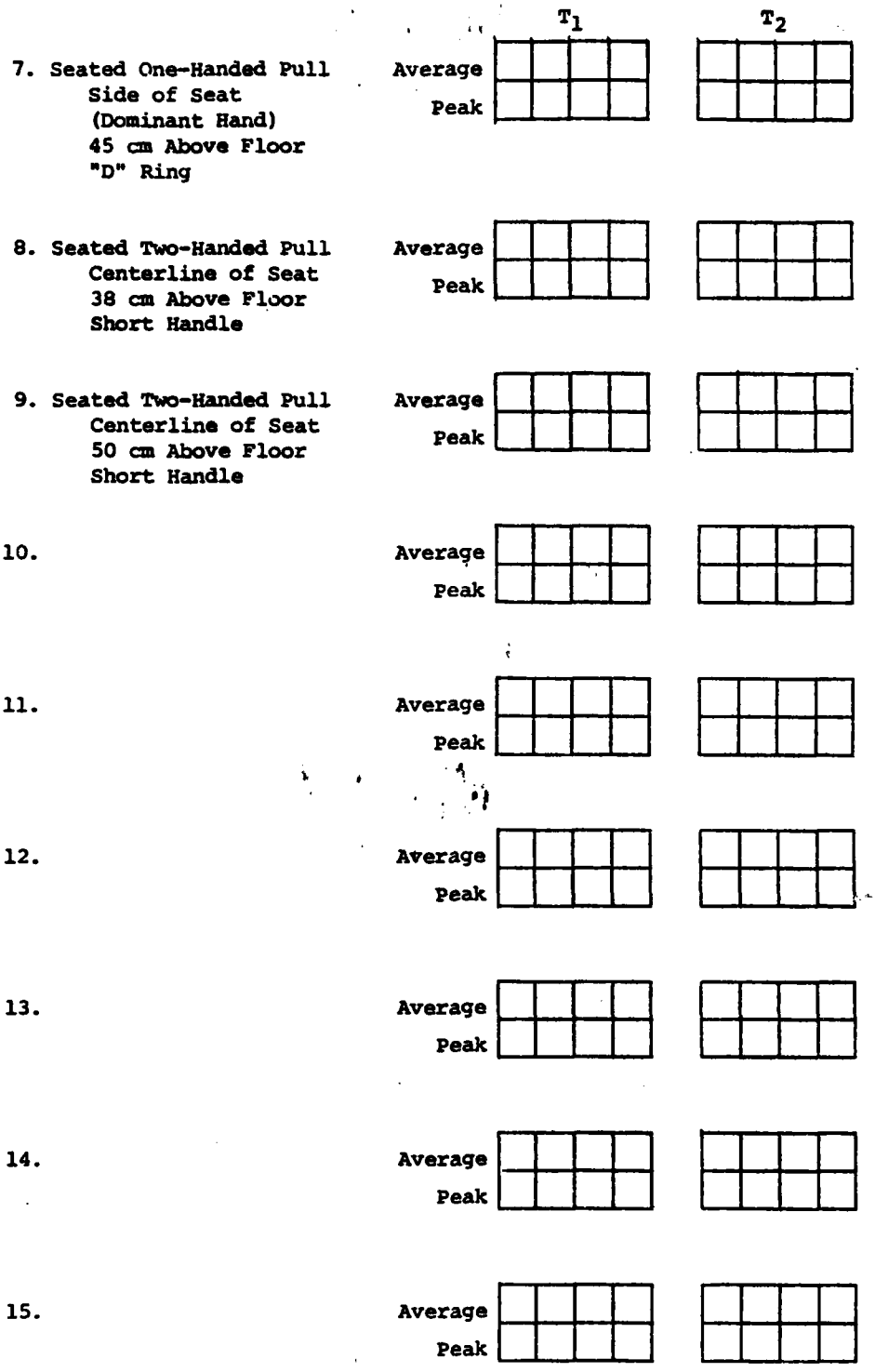

Figure 6b. The survey blank: static muscle strength subseries.

DEFINITIONS OF THE STRENGTH MEASUREMENTS

STANDING TWO-HANDED PULL--38-CENTIMETER LEVEL: The subject stands with his feet 45 centimeters apart and his knees bent. He bends at the waist and grasps both sides of the long handle which is attached 38 centimeters above the platform and directly in front of him. He is instructed to minimize pull with his back to lessen the chance of injury. He attempts to lift the handle, primarily using his arms and shoulders but also using his legs by extending them upwards.

STANDING TWO-HANDED PULL--50-CENTIMETER LEVEL: The subject stands with his feet 45 centimeters apart and his knees straight. He bends at the waist and grasps both sides of the long handle which is attached 50 centimeters above the platform and directly in front of him. He is instructed to minimize pull with his back to lessen the chance of injury. He attempts to lift the handle, primarily using the arms and shoulders.

STANDING TWO-HANDED PULL--100-CENTIMETER LEVEL: The subject stands erect with his feet 45 centimeters apart and grasps both sides of the long handle which is attached 100 centimeters above the platform and directly in front of him. He attempts to lift the handle using his arms, while keeping his knees straight and his feet firmly planted on the platform.

STANDING TWO-HANDED PUSH--150-CENTIMETER LEVEL: The subject stands erect with his feet 45 centimeters apart and grasps, from below, both sides of the long handle which is attached 150 centimeters above the platform and directly in front of him. He attempts to push the handle straight upward using his arms and shoulders, while keeping his knees straight and his feet firmly planted on the platform.

STANDING ONE-HANDED PULL--100-CENTIMETER LEVEL (D-RING): The subject stands erect with his feet 15 centimeters apart. With his dominant hand (right, if he has reported that he is ambidextrous), he grasps, from the underside, the D-ring which is attached 100 centimeters above the platform and at a point just to the right (or left, as is appropriate) of his body. He attempts to lift the D-ring, primarily using his arm while keeping his shoulders square, his feet firmly planted on the platform, and his other arm relaxed at his side.

SEATED ONE-HANDED PULL, CENTERLINE OF SEAT--45-CENTIMETER LEVEL (D-RING): The subject sits erect with his feet 55 centimeters apart. With his dominant hand, he grasps, from the underside, the D-ring which is attached 45 centimeters above the platform, just forward of the chair in its vertical midplane. He attempts to lift the D-ring, keeping his shoulders square, his feet firmly planted on the platform, and his other arm resting in his lap and not grasping the underside of the chair.

SEATED ONE-HANDED PULL, SIDE OF SEAT--45-CENTIMETER LEVEL (D-RING): The subject sits erect with his feet 55 centimeters apart. With his dominant hand, he grasps, from the underside, the D-ring which is attached 45 centimeters above the platform and a short distance to the right (or left, as is appropriate) of the point midway between the maximal protrusion of the buttock and knee. He attempts to lift the D-ring, keeping his shoulders square, his feet firmly planted on the platform, and his other arm resting in his lap.

SEATED TWO-HANDED PULL, CENTERLINE OF SEAT--38-CENTIMTER LEVEL (SHORT HANDLE): The subject sits erect with his feet 55 centimeters apart. He bends slightly at the waist and grasps both sides of the short handle which is attached 38 centimeters above the platform at a point just forward of the chair and in its vertical midplane. He attempts to lift the handle, primarily using his arms and shoulders while keeping his feet flat and his arms off his thighs.

SEATED TWO-HANDED PULL, CENTERLINE OF SEAT--50-CENTIMETER LEVEL (SHORT HANDLE): The subject sits erect with his feet 55 centimeters apart. He bends slightly at the waist and grasps both sides of the short handle which is attached 50 centimeters above the platform at a point just forward of the chair and in its vertical midplane. He attempts to lift the handle, primarily using his arms and shoulders while keeping his feet flat and his arms off his thighs.

TABLE 7a

STATIC STRENGTH MEASUREMENTS--STANDING TWO-HANDED PULL 38 CM ABOVE FLOOR

SUMMARY STATISTICS

		KG	LB	KG	LB			
MEAN FORCE -	1	M= 102.7/	226.5	SD= 20.6/	45.4	V=20.1%	V-I= .2	V-II= 2.4
MEAN FORCE -	2	M= 103.9/	229.0	SD= 19.1/	42.0	V=18.3%	V-I= .4	V-II= 2.8
PEAK FORCE -	1	M= 111.2/	245.2	SD= 20.8/	45.9	V=18.7%	V-I= .2	V-II= 2.3
PEAK FORCE -	2	M= 113.9/	251.0	SD= 18.1/	40.0	V=15.9%	V-I= .3	V-II= 2.9

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	70.3	73.7	79.6	86.9	92.7	101.9	112.8	116.9	124.5	131.0	138.1
MEAN FORCE -	2	75.2	80.2	83.9	89.6	95.0	102.5	110.4	116.7	124.5	129.8	137.4
PEAK FORCE -	1	76.5	84.0	88.3	95.4	101.5	110.2	119.2	125.9	134.1	139.4	146.4
PEAK FORCE -	2	86.1	91.5	95.3	101.0	105.9	112.7	120.1	125.8	133.4	138.6	146.6

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	154.9	162.5	175.5	191.6	204.3	224.8	248.6	257.7	274.4	288.8	304.5
MEAN FORCE -	2	165.8	176.7	184.9	198.0	209.5	225.9	243.5	257.2	274.5	286.3	303.0
PEAK FORCE -	1	173.0	185.2	194.7	210.3	223.9	243.0	262.7	277.6	295.6	307.2	322.8
PEAK FORCE -	2	189.9	201.8	210.0	222.8	233.5	248.6	264.7	277.4	294.0	305.6	323.1

TABLE 7b

STATIC STRENGTH MEASUREMENTS--STANDING TWO-HANDED PULL 50 CM ABOVE FLOOR

SUMMARY STATISTICS

		KG	LB	KG	LB			
MEAN FORCE -	1	M= 102.1/	225.1	SD= 18.2/	40.1	V=17.8%	V-I= .4	V-II= 2.8
MEAN FORCE -	2	M= 103.2/	227.4	SD= 18.1/	39.8	V=17.5%	V-I= .6	V-II= 3.0
PEAK FORCE -	1	M= 112.1/	247.2	SD= 19.5/	43.1	V=17.4%	V-I= .4	V-II= 2.8
PEAK FORCE -	2	M= 112.7/	248.6	SD= 18.7/	41.2	V=16.6%	V-I= .5	V-II= 2.9

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	74.5	79.2	82.7	88.5	93.5	100.7	106.3	114.3	122.0	127.2	134.9
MEAN FORCE -	2	77.3	81.4	84.5	89.6	94.5	101.4	106.9	114.9	122.9	128.4	136.8
PEAK FORCE -	1	82.3	87.9	91.6	97.5	102.7	110.3	118.5	125.0	133.4	139.0	147.0
PEAK FORCE -	2	84.7	89.4	92.9	98.8	103.8	111.0	118.7	124.7	132.4	137.8	145.8

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	164.2	174.6	182.4	195.1	206.1	222.0	238.9	252.1	269.0	280.5	297.4
MEAN FORCE -	2	170.4	179.4	186.3	197.9	208.3	223.5	240.1	253.4	270.9	283.1	301.6
PEAK FORCE -	1	182.4	193.7	201.9	214.9	226.4	243.1	261.2	275.6	294.1	306.5	324.1
PEAK FORCE -	2	186.8	197.0	204.9	217.7	228.9	244.8	261.7	274.9	292.0	303.8	321.5

TABLE 7c

STATIC STRENGTH MEASUREMENTS--STANDING TWO-HANDED PULL 100 CM ABOVE FLOOR

SUMMARY STATISTICS

			KG	LB		KG	LB					
MEAN FORCE -	1	M=	66.6/	146.8	SD=	14.7/	32.4	V=22.1%	V-I=	.6	V-II=	2.9
MEAN FORCE -	2	M=	66.0/	145.4	SD=	15.0/	33.0	V=22.7%	V-I=	.6	V-II=	3.2
PEAK FORCE -	1	M=	72.4/	159.6	SD=	15.0/	33.1	V=20.7%	V-I=	.5	V-II=	2.7
PEAK FORCE -	2	M=	72.4/	159.5	SD=	15.9/	35.1	V=22.0%	V-I=	.5	V-II=	2.8

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	45.3	47.7	52.2	57.2	59.5	62.8	70.8	76.3	82.8	88.8	94.9
MEAN FORCE -	2	43.6	47.7	50.6	55.1	59.0	64.4	70.4	75.1	81.5	86.0	93.1
PEAK FORCE -	1	51.4	55.0	57.3	60.9	64.3	68.8	77.5	83.5	88.9	94.7	100.2
PEAK FORCE -	2	48.3	52.5	55.6	60.5	64.8	70.8	77.3	82.5	89.1	93.8	100.8

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	99.9	105.3	115.1	126.1	131.2	138.5	156.1	168.2	182.6	195.8	209.3
MEAN FORCE -	2	96.1	105.1	111.5	121.5	130.0	142.1	155.2	165.6	179.6	189.6	205.2
PEAK FORCE -	1	113.3	121.3	126.4	134.3	141.8	151.8	170.8	184.1	195.9	208.8	220.9
PEAK FORCE -	2	106.4	115.7	122.5	133.4	142.8	156.2	170.5	181.8	196.5	206.7	222.2

TABLE 7d

STATIC STRENGTH MEASUREMENTS--STANDING TWO-HANDED PUSH 150 CM ABOVE FLOOR

SUMMARY STATISTICS

			KG	LB		KG	LB					
MEAN FORCE -	1	M=	67.2/	148.1	SD=	17.9/	39.4	V=26.6%	V-I=	.5	V-II=	2.8
MEAN FORCE -	2	M=	68.8/	151.6	SD=	19.8/	43.7	V=28.9%	V-I=	.9	V-II=	4.3
PEAK FORCE -	1	M=	74.5/	164.3	SD=	19.1/	42.2	V=25.7%	V-I=	.8	V-II=	3.8
PEAK FORCE -	2	M=	75.9/	167.3	SD=	20.5/	45.3	V=27.1%	V-I=	1.1	V-II=	5.3

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	41.7	45.4	48.3	53.3	58.0	65.0	72.9	79.1	87.1	92.4	99.8
MEAN FORCE -	2	43.3	45.0	48.4	54.1	59.0	66.4	74.5	81.0	89.3	95.2	103.7
PEAK FORCE -	1	48.3	52.0	55.2	60.4	65.1	72.2	80.0	86.4	94.6	100.3	108.4
PEAK FORCE -	2	48.2	52.5	55.8	61.1	65.9	73.1	81.1	87.6	96.3	102.4	111.6

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	91.9	100.1	106.5	117.6	127.8	143.3	160.6	174.4	192.1	203.8	219.9
MEAN FORCE -	2	95.9	99.3	106.6	119.0	130.1	146.4	164.3	178.5	197.0	209.8	228.6
PEAK FORCE -	1	105.7	114.7	121.6	133.1	143.5	159.1	176.5	190.4	208.6	221.1	239.1
PEAK FORCE -	2	106.3	115.8	122.9	134.8	145.4	161.2	178.9	193.2	212.3	225.7	246.0

TABLE 7e

STATIC STRENGTH MEASUREMENTS--STANDING ONE-HANDED PULL 100 CM ABOVE FLOOR

SUMMARY STATISTICS

			KG	LB		KG	LB					
MEAN FORCE -	1	M=	41.6/	91.7	SD=	13.1/	28.9	V=31.5%	V-I=	.7	V-II=	3.5
MEAN FORCE -	2	M=	42.3/	93.3	SD=	12.8/	28.2	V=30.2%	V-I=	.3	V-II=	3.0
PEAK FORCE -	1	M=	47.6/	104.9	SD=	14.9/	32.8	V=31.3%	V-I=	.8	V-II=	4.0
PEAK FORCE -	2	M=	48.9/	107.7	SD=	14.4/	31.7	V=29.5%	V-I=	.5	V-II=	3.9

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	21.7	24.1	27.3	31.8	37.0	41.2	45.2	48.8	51.9	59.2	63.8
MEAN FORCE -	2	21.9	25.7	28.6	33.1	36.9	41.9	47.0	50.7	55.5	58.8	64.0
PEAK FORCE -	1	26.4	30.3	33.0	37.3	40.9	46.1	51.7	56.3	62.4	66.9	73.8
PEAK FORCE -	2	26.2	30.6	34.0	39.1	43.2	48.6	53.9	57.8	63.0	66.7	72.8

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	47.9	53.2	60.2	70.0	81.6	90.8	99.7	107.5	114.5	130.0	140.7
MEAN FORCE -	2	48.3	56.0	62.9	73.0	81.3	92.4	103.5	111.8	122.2	129.6	141.1
PEAK FORCE -	1	58.2	66.7	72.7	82.1	90.1	101.6	114.1	124.1	137.7	147.4	162.8
PEAK FORCE -	2	57.8	67.5	74.9	86.1	95.2	107.1	118.8	127.5	138.8	147.0	160.5

TABLE 7f

STATIC STRENGTH MEASUREMENTS--SEATED ONE-HANDED PULL CENTERLINE OF SEAT
45 CM ABOVE FLOOR

SUMMARY STATISTICS

			KG	LB		KG	LB					
MEAN FORCE -	1	M=	45.4/	100.1	SD=	14.0/	30.8	V=30.7%	V-I=	-.1	V-II=	2.2
MEAN FORCE -	2	M=	47.6/	104.9	SD=	14.2/	31.4	V=29.9%	V-I=	-.2	V-II=	2.1
PEAK FORCE -	1	M=	52.0/	114.7	SD=	15.0/	33.1	V=28.8%	V-I=	-.2	V-II=	2.1
PEAK FORCE -	2	M=	53.2/	117.3	SD=	15.2/	33.4	V=28.5%	V-I=	-.1	V-II=	2.1

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	21.3	26.6	28.5	34.3	40.1	46.8	51.1	55.5	61.0	64.3	66.4
MEAN FORCE -	2	23.2	26.3	28.9	35.6	42.8	48.3	54.5	59.9	63.6	65.2	69.2
PEAK FORCE -	1	27.1	30.2	32.7	41.4	47.4	53.8	58.2	63.2	68.7	71.9	74.7
PEAK FORCE -	2	27.9	31.3	33.6	41.7	48.7	54.3	59.3	65.4	69.6	72.6	77.3

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	46.9	58.6	62.9	75.5	88.4	103.3	112.6	122.3	134.5	141.7	146.5
MEAN FORCE -	2	51.1	58.0	63.7	78.5	94.3	106.5	120.2	132.1	140.3	143.6	152.5
PEAK FORCE -	1	59.8	66.7	72.1	91.3	104.5	118.6	128.3	139.3	151.5	158.6	164.7
PEAK FORCE -	2	61.4	69.0	74.1	92.0	107.3	119.8	130.7	144.3	153.5	160.0	170.5

TABLE 7g

STATIC STRENGTH MEASUREMENTS--SEATED ONE-HANDED PULL SIDE OF SEAT
45 CM ABOVE FLOOR

SUMMARY STATISTICS

			KG	LB		KG	LB					
MEAN FORCE -	1	M=	39.3/	86.7	SD=	11.9/	26.3	V=30.3%	V-I=	.3	V-II=	2.6
MEAN FORCE -	2	M=	42.3/	93.2	SD=	11.4/	25.2	V=27.1%	V-I=	.3	V-II=	2.6
PEAK FORCE -	1	M=	45.3/	99.9	SD=	13.1/	28.9	V=29.0%	V-I=	.2	V-II=	2.6
PEAK FORCE -	2	M=	47.9/	105.6	SD=	12.2/	26.9	V=25.5%	V-I=	.3	V-II=	3.0

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	20.4	22.8	25.3	29.2	32.7	39.9	43.2	46.9	52.7	55.3	57.7
MEAN FORCE -	2	24.4	28.1	29.9	33.2	35.9	41.6	46.9	49.9	55.1	59.5	61.5
PEAK FORCE -	1	24.4	26.7	29.6	34.1	39.2	45.9	50.4	54.5	59.4	61.9	66.5
PEAK FORCE -	2	27.8	32.7	34.6	38.2	42.8	47.2	52.7	55.8	62.1	64.3	67.2

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	45.0	50.3	55.8	64.4	72.0	87.9	95.1	103.3	116.2	122.0	127.2
MEAN FORCE -	2	53.9	62.0	66.0	73.3	79.0	91.8	103.5	110.1	121.5	131.2	135.7
PEAK FORCE -	1	53.9	59.0	65.2	75.1	86.5	101.3	111.1	120.3	130.9	136.4	146.6
PEAK FORCE -	2	61.3	72.1	76.2	84.1	94.3	104.2	116.2	123.1	136.9	141.8	148.1

TABLE 7h

STATIC STRENGTH MEASUREMENTS SEATED TWO-HANDED PULL CENTERLINE OF SEAT
38 CM ABOVE FLOOR

SUMMARY SIGNIFICS

			KG	LB		KG	LB					
MEAN FORCE -	1	M=	89.7/	197.8	SD=	20.1/	44.3	V=22.4%	V-I=	.3	V-II=	2.7
MEAN FORCE -	2	M=	90.5/	199.4	SD=	18.4/	40.6	V=20.4%	V-I=	.2	V-II=	3.1
PEAK FORCE -	1	M=	98.2/	216.5	SD=	20.3/	44.8	V=20.7%	V-I=	.5	V-II=	3.1
PEAK FORCE -	2	M=	100.0/	220.4	SD=	18.5/	40.8	V=18.5%	V-I=	.3	V-II=	3.1

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	59.3	64.9	68.9	75.2	80.6	88.3	96.5	103.0	111.2	116.7	124.5
MEAN FORCE -	2	60.7	67.1	71.6	78.2	83.4	90.3	97.1	102.2	108.5	112.9	119.5
PEAK FORCE -	1	68.3	74.1	78.0	83.9	88.9	96.0	104.3	110.5	119.2	125.5	135.0
PEAK FORCE -	2	71.3	77.6	81.7	87.7	92.5	99.0	105.8	111.1	118.3	123.4	131.6

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	130.8	143.2	151.9	165.8	177.6	194.6	212.8	227.0	245.1	257.2	274.5
MEAN FORCE -	2	133.7	148.0	157.8	172.4	183.9	199.1	214.1	225.3	239.3	248.8	263.3
PEAK FORCE -	1	149.9	163.3	172.0	185.0	195.9	211.7	229.2	243.5	262.8	276.6	297.7
PEAK FORCE -	2	157.1	171.0	180.1	193.4	203.9	218.3	233.2	245.0	260.7	272.1	290.2

TABLE 71

STATIC STRENGTH MEASUREMENTS SEATED TWO-HANDED PULL CENTERLINE OF SEAT
50 CM ABOVE FLOOR

SUMMARY STATISTICS

			KG	LB		KG	LB				
MEAN FORCE -	1	M=	77.5/	170.9	SD=	17.5/	38.5	V=22.5%	V-I=	.5	V-II= 4.0
MEAN FORCE -	2	M=	77.8/	171.5	SD=	16.1/	35.6	V=20.7%	V-I=	.4	V-II= 2.9
PEAK FORCE -	1	M=	85.3/	188.0	SD=	18.9/	41.6	V=22.1%	V-I=	.7	V-II= 4.1
PEAK FORCE -	2	M=	87.1/	191.9	SD=	18.2/	40.2	V=20.9%	V-I=	.5	V-II= 3.0

PERCENTILES

KILOGRAMS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	49.3	55.3	59.6	66.0	70.9	77.2	83.3	87.9	94.1	96.8	107.3
MEAN FORCE -	2	53.5	58.1	61.2	66.1	70.3	76.4	83.1	88.5	95.5	100.3	107.3
PEAK FORCE -	1	57.4	63.0	66.9	72.7	77.4	83.8	90.5	95.9	103.5	109.3	119.5
PEAK FORCE -	2	60.7	65.2	68.4	73.5	78.1	84.9	92.5	98.7	107.3	112.7	121.2

POUNDS

		5TH	10TH	15TH	25TH	35TH	50TH	65TH	75TH	85TH	90TH	95TH
MEAN FORCE -	1	108.7	122.0	131.5	145.4	156.3	170.2	183.5	193.7	207.4	217.9	236.5
MEAN FORCE -	2	118.0	128.1	135.0	145.7	154.9	168.4	183.1	195.0	210.5	221.1	236.5
PEAK FORCE -	1	126.6	138.8	147.4	160.3	170.7	184.8	199.5	211.4	228.1	241.0	263.5
PEAK FORCE -	2	133.9	143.7	150.7	162.0	172.1	187.1	204.0	217.7	235.8	248.5	267.3

BIBLIOGRAPHY

Churchill, Edmund, Thomas Churchill, John T. McConville, and Robert M. White. 1977. Anthropometry of Women of the U. S. Army--1977, Report No. 2 - The Basic Univariate Statistics, Technical Report NATICK/TR-77/024, U. S. Army Natick Research and Development Command, Natick, Massachusetts.

Churchill, Thomas, Edmund Churchill, John T. McConville, and Robert M. White. 1977. Anthropometry of Women of the U. S. Army--1977, Report No. 3 - Bivariate Frequency Tables. Technical Report NATICK/TR-77/028, U. S. Army Natick Research and Development Command, Natick, Massachusetts.

Laubach, Lloyd L., John T. McConville, Edmund Churchill, and Robert M. White. 1977. Anthropometry of Women of the U. S. Army--1977, Report No. 1 - Methodology and Survey Plan. Technical Report NATICK/TR-77/021, U. S. Army Natick Research and Development Command, Natick, Massachusetts.

APPENDIX A

ADDITIONAL SUMMARY STATISTICS

Listed in this appendix are standard errors of the means and standard deviations, measures of symmetry and kurtosis, as well as six additional percentiles for the core-subseries 1 measurements, the workspace subseries and the head and face subseries. Units of measurement are shown in centimeters, except for weight which is given in pounds.

A-1. ADDITIONAL SUMMARY STATISTICS FOR THE CORE-SUBSERIES 1 MEASUREMENTS

		SE (M)	SE (SD)	SYMM ETRY	KURT OSIS	- - - PERCENTILES - - - 30TH	40TH	45TH	55TH	60TH	70TH
1C	WEIGHT	1.43	1.01	.01	2.94	140.2	146.3	148.8	154.1	157.2	166.7
2C	STATURE	.40	.28	.00	3.04	170.8	172.5	173.3	174.9	175.7	177.4
4C	AXILLA HEIGHT	.35	.25	-.06	3.25	128.4	129.9	130.6	132.0	132.7	134.2
2T	SUPRASTERNALE HGT	.36	.25	-.01	3.37	139.7	141.3	142.0	143.5	144.2	145.8
5C	CHEST HEIGHT	.33	.24	-.04	3.22	124.6	126.1	126.8	128.2	128.9	130.4
3T	SUBSTERNALE HEIGHT	.32	.23	-.15	3.38	119.9	121.3	122.0	123.3	124.0	125.4
4T	ELBOW (RADIALE) HT	.30	.21	-.03	3.28	106.9	108.2	108.8	110.0	110.6	111.9
5T	KNUCKLE HEIGHT	.24	.17	.05	3.26	73.4	74.4	74.9	76.0	76.5	77.6
6C	WAIST HEIGHT	.34	.24	.04	2.67	101.0	102.6	103.4	104.9	105.6	107.2
8C	BUTTOCK HEIGHT	.30	.21	-.01	3.09	86.9	88.3	88.9	90.2	90.8	92.1
7T	GLUTEAL FURROW HGT	.26	.18	.06	3.16	78.0	79.1	79.7	80.8	81.4	82.6
8T	TIBIALE HEIGHT	.16	.12	-.14	3.18	47.0	47.7	48.0	48.7	49.0	49.7
9T	ACROMION-RADIALE L	.11	.08	.01	3.05	32.8	33.2	33.5	33.9	34.2	34.7
10T	RADIALE-STYLION LH	.09	.07	.03	3.25	26.0	26.4	26.6	27.0	27.2	27.6
11C	SITTING HEIGHT	.21	.15	.05	3.34	87.5	88.4	88.9	89.7	90.2	91.1
12C	EYE HEIGHT/SITTING	.20	.14	.01	3.23	75.7	76.5	76.9	77.7	78.1	79.0
13C	SHOULDER-ELBOW LTH	.11	.08	.03	3.06	35.4	35.8	36.0	36.5	36.7	37.2
11T	ELBOW-GRIP LENGTH	.12	.08	.00	3.44	34.0	34.5	34.7	35.2	35.4	35.9
14C	ELBOW-FINGERTIP LH	.15	.10	-.05	3.33	46.6	47.1	47.4	48.0	48.3	49.0
15C	KNEE HEIGHT/SIT	.18	.13	-.04	3.06	53.6	54.4	54.7	55.4	55.8	56.6
16C	POPLITEAL HEIGHT	.16	.11	-.06	3.02	42.9	43.6	44.0	44.6	45.0	45.7
17C	BUTTOCK-KNEE LNGTH	.18	.13	.03	3.01	59.1	60.0	60.4	61.1	61.5	62.4
18C	CHEST DEPTH	.12	.08	.53	2.84	20.4	20.9	21.1	21.6	21.9	22.6
19C	WAIST DEPTH	.13	.10	.98	4.04	18.9	19.3	19.6	20.1	20.4	21.2
1BT	BIACROMIAL BREADTH	.12	.08	-.13	2.82	38.5	39.0	39.3	39.8	40.0	40.6
20C	SHOULDER CIRCUMFER	.30	.20	.29	2.86	107.3	109.0	109.8	111.4	112.2	114.0
27C	CHEST CIRC	.59	.28	.56	2.83	88.7	90.3	91.0	92.6	93.7	95.8
29C	WAIST CIRCUMFERNCE	.47	.34	1.06	3.97	73.6	75.2	76.0	77.9	78.9	81.4
19T	WAIST C, OMPHALION	.49	.35	1.11	4.08	74.1	75.4	76.0	77.3	78.7	81.0
30C	HIP CIRCUMFERENCE	.30	.25	.77	3.10	91.2	92.6	93.3	94.9	95.7	97.7
25T	BICEPS CIR,RELAXED	.16	.12	.24	2.75	27.6	28.3	28.7	29.4	29.8	30.6
33C	BICEPS CIRC,FLEXED	.16	.11	.13	2.69	29.8	30.6	30.9	31.6	32.0	32.8
39C	CALF CIRCUMFERENCE	.17	.12	.26	2.93	34.2	34.9	35.3	36.0	36.3	37.2
40C	ANKLE CIRCUMFERNCE	.08	.06	.12	2.76	21.0	21.4	21.6	21.9	22.1	22.5
42C	INTERSCYE, BACK	.17	.12	.02	2.82	39.6	40.3	40.6	41.3	41.7	42.5
43C	INTERSCYE, FRONT	.12	.08	.10	2.71	35.6	36.1	36.4	36.9	37.1	37.7
44C	BACK CURVATURE-CHST	.20	.14	.59	2.81	43.0	43.8	44.2	45.1	45.6	46.7
45C	BACK CURVATRE-WAIST	.25	.18	1.18	4.95	36.6	37.3	37.7	38.6	39.1	40.3
46C	BACK CURVATURE-HIP	.18	.13	.71	3.26	44.0	45.3	45.7	46.5	46.9	47.9
47C	WAIST BACK LENGTH	.19	.13	.07	2.85	43.1	44.0	44.4	45.3	45.7	46.6

UNITS ARE CENTIMETERS OR POUNDS

ADDITIONAL SUMMARY STATISTICS
THE CORE-SUBSERIES 1 MEASUREMENTS

		SE (M)	SE (SD)	SYMM ETRY	KURT OSIS	- - - PERCENTILES - - - 5OTH	4OTH	45TH	55TH	6OTH	7OTH
46C	WAIST FRONT LENGTH	.18	.13	.00	2.91	39.4	40.2	40.6	41.4	41.8	42.6
51C	SLEEVE INSEAM LGTH	.16	.11	.03	3.31	46.8	47.5	47.8	48.5	48.9	49.6
52C	SLEEVE OUTSEAM LTH	.19	.13	.04	3.10	57.0	57.8	58.2	59.0	59.4	60.4
54C	HEAD CIRCUMFERENCE	.10	.07	-.15	3.01	55.2	55.6	55.9	56.3	56.5	56.9
55C	HEAD BREADTH	.03	.02	.17	3.04	14.8	14.9	15.0	15.1	15.2	15.3
56C	HEAD LENGTH	.04	.03	-.14	3.03	19.1	19.3	19.4	19.6	19.6	19.8
57C	PALM LENGTH	.03	.02	-.10	2.86	10.5	10.6	10.7	10.8	10.9	11.1
58C	HAND BREADTH	.03	.02	.04	2.64	8.7	8.8	8.9	9.0	9.0	9.2
59C	HAND CIRCUMFERENCE	.06	.04	.08	2.96	20.6	20.8	21.0	21.2	21.3	21.6
60C	HAND LENGTH	.06	.04	-.13	2.76	18.5	18.8	18.9	19.1	19.3	19.6
61C	INSTEP LENGTH	.07	.05	.02	2.83	19.1	19.4	19.6	19.9	20.0	20.3
62C	FOOT LENGTH	.08	.06	-.16	2.80	26.1	26.4	26.6	27.0	27.1	27.5
63C	HEEL-ANKLE CIRCUMF	.10	.07	.07	3.14	33.1	33.5	33.7	34.1	34.4	34.9
64C	FOOT BREADTH	.03	.02	-.12	3.31	9.6	9.8	9.8	10.0	10.0	10.2
65C	FOOT CIRCUMFERENCE	.08	.05	.10	2.88	24.4	24.8	24.9	25.2	25.4	25.8
69C	SPHYRION HEIGHT	.04	.03	-.03	2.97	7.1	7.2	7.3	7.5	7.6	7.7
29T	WAIST HT/OMPHALION	.31	.22	-.08	3.11	102.8	104.1	104.8	106.1	106.7	108.2
30T	MIDSHOULDER HT/SIT	.18	.13	.08	2.89	59.8	60.6	60.9	61.7	62.1	62.9

A-2. ADDITIONAL SUMMARY STATISTICS
FOR THE WORKSPACE SUBSERIES

	SE (M)	SE (SD)	SYMM ETRY	KURT OSIS	- - - PERCENTILES - - - 30TH	40TH	45TH	50TH	60TH	70TH
1W OVERHEAD REACH HGT	.91	.65	-.09	3.16	210.2	212.7	213.9	216.3	217.5	220.1
2W FUNCTIONAL REACH	.40	.28	-.17	2.87	77.6	78.8	79.3	80.4	81.0	82.1
3W FUNCTIONAL RCH/EXT	.51	.36	.27	2.74	88.7	90.1	90.7	92.1	92.8	94.5
4W OVERHEAD REACH/SIT	.57	.40	-.04	3.82	134.2	135.5	136.1	137.3	137.9	139.4
5W FUNCTIONAL LEG LN	.51	.36	.11	2.65	115.7	117.2	117.7	119.4	120.0	121.4
6W WEIGHT (CLOTHED)	2.12	1.50	.59	3.17	145.8	151.0	153.6	159.1	162.0	168.5
7W STATURE (CLOTHED)	.61	.43	.06	3.26	174.9	176.3	177.0	178.2	179.1	181.4
8W OVERHEAD RCH BRDTH	.20	.14	.09	2.83	37.4	38.0	38.2	38.8	39.0	39.6
9W BENT TORSO HEIGHT	.71	.50	.06	2.37	132.9	135.0	136.1	136.1	139.2	141.5
10W BENT TORSO BREADTH	.22	.15	-.15	4.03	43.7	44.3	44.5	45.0	45.3	45.8
11W KNEELING HEIGHT	.44	.31	.02	2.97	126.8	127.9	128.5	129.0	130.2	131.5
12W KNEELING LEG LNGTH	.35	.25	-.27	3.57	67.4	68.5	69.0	69.9	70.5	71.1
13W BENT KNEE HEIGHT	.25	.18	-.06	2.68	47.5	48.3	48.7	49.4	49.8	50.6
14W HORIZ L/KNEES BENT	.65	.46	.20	2.29	156.9	158.9	159.8	161.6	162.8	165.0
1C WEIGHT-NUDE	2.10	1.49	.50	3.17	140.3	145.5	148.2	153.6	156.5	162.9
2C STATURE-NUDE	.63	.44	.04	3.22	170.7	172.3	173.1	174.7	175.5	177.3

A-3. ADDITIONAL SUMMARY STATISTICS FOR THE HEAD AND FACE SUBSERIES

		SE (M)	SE (SD)	SYMM ETRY	KURT OSIS	- - - PERCENTILES - - - 30TH	40TH	45TH	55TH	60TH	70TH
1H	SAGITTAL ARC	.15	.11	.12	3.74	34.0	34.4	34.5	34.9	35.0	35.5
2H	BIT'ON-CORONAL ARC	.12	.09	-.14	2.62	33.4	33.8	34.0	34.3	34.5	34.9
3H	BIT'ON-FRONTAL ARC	.11	.07	-.03	2.74	28.7	29.0	29.2	29.4	29.6	29.9
4H	BITR'ON-MENTON ARC	.13	.09	-.02	2.39	30.4	30.8	31.0	31.4	31.5	32.0
5H	BIT-SUBMANDBLR ARC	.13	.09	.04	2.20	27.7	28.3	28.5	28.9	29.0	29.3
6H	GLABELLA TO WALL	.07	.05	.37	3.42	19.2	19.4	19.5	19.5	19.7	19.9
7H	SELLION TO WALL	.07	.05	.32	3.75	19.2	19.3	19.4	19.5	19.6	19.8
8H	PRONASALE TO WALL	.07	.05	.07	3.08	21.8	22.0	22.1	22.3	22.4	22.6
9H	SUBNASALE TO WALL	.08	.05	.38	3.47	20.5	20.7	20.8	20.9	21.0	21.2
10H	LIP PROTRUS'N-WALL	.10	.07	.51	3.29	20.3	20.6	20.7	21.0	21.1	21.4
11H	MENTON TO WALL	.11	.08	.45	3.09	19.6	19.9	20.0	20.3	20.4	20.7
12H	ECTOCANTHUS-WALL	.07	.05	.12	3.12	17.1	17.3	17.4	17.6	17.7	17.9
13H	TRAGION TO WALL	.07	.05	-.05	3.09	10.0	10.1	10.2	10.4	10.5	10.7
14H	BITRAGION BREADTH	.06	.04	-.04	2.63	13.2	13.4	13.5	13.6	13.7	13.8
15H	HEAD HT/TRAGN-VRTX	.07	.05	.03	3.47	13.1	13.3	13.3	13.5	13.6	13.7
16H	ECTOCANTHUS-VERTEX	.08	.06	.22	3.14	10.6	10.8	10.9	11.1	11.2	11.4
17H	GLABELLA TO VERTEX	.09	.06	.06	2.30	7.4	7.6	7.8	8.0	8.1	8.4
18H	SELLION TO VERTEX	.10	.07	.24	2.55	9.0	9.3	9.6	9.9	9.9	10.1
19H	PRONASALE TO VERTX	.11	.07	.43	2.85	12.5	12.8	12.9	13.2	13.3	13.7
20H	SUBNASALE TO VERTX	.09	.07	.22	2.74	13.9	14.2	14.3	14.6	14.7	15.0
21H	STOMION TO VERTEX	.10	.07	.23	2.75	16.3	16.5	16.6	16.9	17.1	17.4
22H	MENTON TO VERTEX	.10	.07	.36	2.86	20.8	21.0	21.1	21.4	21.5	21.8
23H	FACE LENGTH	.07	.05	.07	2.54	11.3	11.5	11.6	11.8	11.9	12.1
24H	CRINION-MENTON	.08	.06	-.04	3.06	18.1	18.4	18.5	18.7	18.8	19.0
25H	MINIMUM FRONTAL BR	.08	.06	-.15	2.19	10.7	10.9	11.0	11.3	11.4	11.6
26H	FACE B/BIZYGOMATIC	.05	.04	-.38	2.70	13.5	13.7	13.7	13.9	14.0	14.1
27H	BIOCULAR BREADTH	.05	.03	-.16	3.25	9.9	10.0	10.1	10.2	10.3	10.4
28H	INTERPUPILLARY DIS	.05	.03	.05	3.17	5.7	5.8	5.8	5.9	6.0	6.1
29H	NOSE LENGTH	.04	.03	.31	2.50	4.8	4.8	4.9	5.0	5.0	5.2
30H	NOSE BREADTH	.05	.03	.30	2.22	3.4	3.5	3.6	3.7	3.8	4.0
31H	MOUTH BRTH/SMILING	.07	.05	.23	2.34	6.0	6.2	6.3	6.5	6.6	6.9
32H	EAR LENGTH	.04	.03	-.27	3.53	6.0	6.1	6.2	6.3	6.3	6.4
33H	EAR BREADTH	.04	.03	.21	3.46	4.2	4.2	4.3	4.4	4.4	4.5
34H	BIAURICULAR BR	.09	.06	.18	2.98	17.4	17.6	17.7	18.0	18.1	18.3
35H	HEAD CIRCUMFERENCE	.15	.11	.11	2.94	55.0	55.5	55.6	56.0	56.2	56.6
36H	HEAD BREADTH	.05	.03	-.25	2.20	14.7	14.9	15.0	15.1	15.1	15.3
37H	HEAD LENGTH	.06	.05	.18	3.63	19.1	19.3	19.4	19.5	19.6	19.8

APPENDIX B

FREQUENCY TABLES

For each set of measurement data, a frequency table is given in this appendix. These are the tables used in the computation of the percentile values. Interval widths were chosen so that the number of intervals in each table did not exceed 50. Where appropriate, interval widths of five or ten millimeters were used; when this was done, the lower limits of the intervals were selected so that they had values ending in 0.25 centimeters or 0.75 centimeters to minimize the effect of any possible overuse of 0's or 5's as final digits. Measurement values were treated as though they extended over a range of from half a unit below the recorded value to half a unit above it. Because of this way of handling the data, the limits of the frequency table will exceed those of the recorded data at both ends of the scale. Actual recorded maximum and minimum values can be found in the XVAL printouts in Appendix C.

In each table, the actual frequencies are listed in the columns labeled FRQ, the cumulative frequencies in the columns headed CUMF, the frequencies expressed as percentages of the total count in the columns headed FRQ%, and the cumulative percents in the columns headed CUMF%.

In these tables, the intervals are shown in centimeters, except those for weight which are given in pounds.

B-1. FREQUENCY TABLES FOR THE CORE-SUBSERIES 1 MEASUREMENTS

1C WEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
233.75-236.75	1	287	.35	100.00
230.75-233.75	0	286	0.00	99.65
227.75-230.75	0	286	0.00	99.65
224.75-227.75	0	286	0.00	99.65
221.75-224.75	0	286	0.00	99.65
218.75-221.75	1	286	.35	99.65
215.75-218.75	2	285	.70	99.30
212.75-215.75	3	283	1.05	98.61
209.75-212.75	3	280	1.05	97.56
206.75-209.75	0	277	0.00	96.52
203.75-206.75	1	277	.35	96.52
200.75-203.75	2	276	.70	96.17
197.75-200.75	7	274	2.44	95.47
194.75-197.75	6	267	2.09	93.03
191.75-194.75	4	261	1.39	90.94
188.75-191.75	4	257	1.39	89.55
185.75-188.75	3	253	1.05	88.15
182.75-185.75	8	250	2.79	87.11
179.75-182.75	7	242	2.44	84.32
176.75-179.75	9	235	3.14	81.88
173.75-176.75	8	226	2.79	78.75
170.75-173.75	7	218	2.44	75.96
167.75-170.75	8	211	2.79	73.52
164.75-167.75	6	203	2.09	70.73
161.75-164.75	9	197	3.14	68.64
158.75-161.75	8	188	2.79	65.51
155.75-158.75	15	180	5.23	62.72
152.75-155.75	13	165	4.53	57.49
149.75-152.75	17	152	5.92	52.96
146.75-149.75	18	135	6.27	47.04
143.75-146.75	15	117	5.23	40.77
140.75-143.75	12	102	4.18	35.54
137.75-140.75	21	90	7.32	31.36
134.75-137.75	19	69	6.62	24.04
131.75-134.75	17	50	5.92	17.42
128.75-131.75	8	33	2.79	11.50
125.75-128.75	6	25	2.09	8.71
122.75-125.75	4	19	1.39	6.62
119.75-122.75	6	15	2.09	5.23
116.75-119.75	4	9	1.39	3.14
113.75-116.75	2	5	.70	1.74
110.75-113.75	0	3	0.00	1.05
107.75-110.75	0	3	0.00	1.05
104.75-107.75	0	3	0.00	1.05
101.75-104.75	3	3	1.05	1.05

2C STATURE

RANGES	FRQ	CUMF	FRQ%	CUMF%
196.75-197.75	1	287	.35	100.00
195.75-196.75	0	286	0.00	99.65
194.75-195.75	0	286	0.00	99.65
193.75-194.75	0	286	0.00	99.65
192.75-193.75	1	286	.35	99.65
191.75-192.75	0	285	0.00	99.30
190.75-191.75	1	285	.35	99.30
189.75-190.75	2	284	.70	98.95
188.75-189.75	1	282	.35	98.26
187.75-188.75	0	281	0.00	97.91
186.75-187.75	5	281	1.74	97.91
185.75-186.75	1	276	.35	96.17
184.75-185.75	4	275	1.39	95.82
183.75-184.75	3	271	1.05	94.43
182.75-183.75	5	268	1.74	93.38
181.75-182.75	9	263	3.14	91.64
180.75-181.75	11	254	3.83	88.50
179.75-180.75	10	243	3.48	84.67
178.75-179.75	15	233	5.23	81.18
177.75-178.75	14	218	4.88	75.96
176.75-177.75	14	204	4.88	71.08
175.75-176.75	16	190	5.57	66.20
174.75-175.75	21	174	7.32	60.63
173.75-174.75	17	153	5.92	53.31
172.75-173.75	16	136	5.57	47.39
171.75-172.75	19	120	6.62	41.81
170.75-171.75	12	101	4.18	35.19
169.75-170.75	10	89	3.48	31.01
168.75-169.75	18	79	6.27	27.53
167.75-168.75	16	61	5.57	21.25
166.75-167.75	13	45	4.53	15.68
165.75-166.75	5	32	1.74	11.15
164.75-165.75	5	27	1.74	9.41
163.75-164.75	3	22	1.05	7.67
162.75-163.75	5	19	1.74	6.62
161.75-162.75	3	14	1.05	4.88
160.75-161.75	1	11	.35	3.83
159.75-160.75	3	10	1.05	3.48
158.75-159.75	3	7	1.05	2.44
157.75-158.75	1	4	.35	1.39
156.75-157.75	0	3	0.00	1.05
155.75-156.75	1	3	.35	1.05
154.75-155.75	0	2	0.00	.70
153.75-154.75	0	2	0.00	.70
152.75-153.75	2	2	.70	.70

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

4C AXILLA HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
148.75-149.75	1	287	.35	100.00
147.75-148.75	0	286	0.00	99.65
146.75-147.75	0	286	0.00	99.65
145.75-146.75	0	286	0.00	99.65
144.75-145.75	3	286	1.05	99.65
143.75-144.75	0	283	0.00	98.61
142.75-143.75	3	283	1.05	98.61
141.75-142.75	3	280	1.05	97.56
140.75-141.75	4	277	1.39	96.52
139.75-140.75	8	273	2.79	95.12
138.75-139.75	8	265	2.79	92.33
137.75-138.75	10	257	3.48	89.55
136.75-137.75	10	247	3.48	86.06
135.75-136.75	9	237	3.14	82.58
134.75-135.75	15	228	5.23	79.44
133.75-134.75	20	213	6.97	74.22
132.75-133.75	21	193	7.32	67.25
131.75-132.75	22	172	7.67	59.93
130.75-131.75	18	150	6.27	52.26
129.75-130.75	22	132	7.67	45.99
128.75-129.75	15	110	5.23	38.33
127.75-128.75	14	95	4.88	33.10
126.75-127.75	21	81	7.32	28.22
125.75-126.75	15	60	5.23	20.91
124.75-125.75	11	45	3.83	15.68
123.75-124.75	8	34	2.79	11.85
122.75-123.75	4	26	1.39	9.06
121.75-122.75	2	22	.70	7.67
120.75-121.75	8	20	2.79	6.97
119.75-120.75	3	12	1.05	4.18
118.75-119.75	4	9	1.39	3.14
117.75-118.75	1	5	.35	1.74
116.75-117.75	0	4	0.00	1.39
115.75-116.75	1	4	.35	1.39
114.75-115.75	2	3	.70	1.05
113.75-114.75	0	1	0.00	.35
112.75-113.75	1	1	.35	.35

2T SUPRASTERNALE HGT

RANGES	FRQ	CUMF	FRQ%	CUMF%
161.75-162.75	1	287	.35	100.00
160.75-161.75	0	286	0.00	99.65
159.75-160.75	0	286	0.00	99.65
158.75-159.75	1	286	.35	99.65
157.75-158.75	0	285	0.00	99.30
156.75-157.75	1	285	.35	99.30
155.75-156.75	3	284	1.05	98.95
154.75-155.75	2	281	.70	97.91
153.75-154.75	3	279	1.05	97.21
152.75-153.75	3	276	1.05	96.17
151.75-152.75	4	273	1.39	95.12
150.75-151.75	8	269	2.79	93.73
149.75-150.75	5	261	1.74	90.94
148.75-149.75	13	256	4.53	89.20
147.75-148.75	12	243	4.18	84.67
146.75-147.75	18	231	6.27	80.49
145.75-146.75	9	213	3.14	74.22
144.75-145.75	20	204	6.97	71.08
143.75-144.75	17	184	5.92	64.11
142.75-143.75	25	167	8.71	58.19
141.75-142.75	18	142	6.27	49.48
140.75-141.75	23	124	8.01	43.21
139.75-140.75	13	101	4.53	35.19
138.75-139.75	19	88	6.62	30.66
137.75-138.75	11	69	3.83	24.04
136.75-137.75	13	58	4.53	20.21
135.75-136.75	13	45	4.53	15.68
134.75-135.75	7	32	2.44	11.15
133.75-134.75	3	25	1.05	8.71
132.75-133.75	6	22	2.09	7.67
131.75-132.75	6	16	2.09	5.57
130.75-131.75	1	10	.35	3.48
129.75-130.75	2	9	.70	3.14
128.75-129.75	4	7	1.39	2.44
127.75-128.75	0	3	0.00	1.05
126.75-127.75	1	3	.35	1.05
125.75-126.75	0	2	0.00	.70
124.75-125.75	1	2	.35	.70
123.75-124.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

5C CHEST HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
145.75-146.75	1	287	.35	100.00
144.75-145.75	0	286	0.00	99.65
143.75-144.75	0	286	0.00	99.65
142.75-143.75	0	286	0.00	99.65
141.75-142.75	1	286	.35	99.65
140.75-141.75	0	285	0.00	99.30
139.75-140.75	2	285	.70	99.30
138.75-139.75	1	283	.35	98.61
137.75-138.75	2	282	.70	98.26
136.75-137.75	5	280	1.74	97.56
135.75-136.75	7	275	2.44	95.82
134.75-135.75	11	268	3.83	93.38
133.75-134.75	7	257	2.44	89.55
132.75-133.75	16	250	5.57	87.11
131.75-132.75	10	234	3.48	81.53
130.75-131.75	17	224	5.92	78.05
129.75-130.75	19	207	6.62	72.13
128.75-129.75	14	188	4.88	65.51
127.75-128.75	19	174	6.62	60.63
126.75-127.75	26	155	9.06	54.01
125.75-126.75	22	129	7.67	44.95
124.75-125.75	21	107	7.32	37.28
123.75-124.75	16	86	5.57	29.97
122.75-123.75	13	70	4.53	24.39
121.75-122.75	10	57	3.48	19.86
120.75-121.75	13	47	4.53	16.38
119.75-120.75	10	34	3.48	11.85
118.75-119.75	7	24	2.44	8.36
117.75-118.75	5	17	1.74	5.92
116.75-117.75	1	12	.35	4.18
115.75-116.75	4	11	1.39	3.83
114.75-115.75	2	7	.70	2.44
113.75-114.75	2	5	.70	1.74
112.75-113.75	1	3	.35	1.05
111.75-112.75	0	2	0.00	.70
110.75-111.75	1	2	.35	.70
109.75-110.75	1	1	.35	.35

3T SUBSTERNALE HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
139.75-140.75	1	287	.35	100.00
138.75-139.75	0	286	0.00	99.65
137.75-138.75	0	286	0.00	99.65
136.75-137.75	0	286	0.00	99.65
135.75-136.75	1	286	.35	99.65
134.75-135.75	1	285	.35	99.30
133.75-134.75	1	284	.35	98.95
132.75-133.75	4	283	1.39	98.61
131.75-132.75	7	279	2.44	97.21
130.75-131.75	2	272	.70	94.77
129.75-130.75	13	270	4.53	94.08
128.75-129.75	8	257	2.79	89.55
127.75-128.75	7	249	2.44	86.76
126.75-127.75	14	242	4.88	84.32
125.75-126.75	22	228	7.67	79.44
124.75-125.75	20	206	6.97	71.78
123.75-124.75	13	186	4.53	64.81
122.75-123.75	26	173	9.06	60.28
121.75-122.75	14	147	4.88	51.22
120.75-121.75	34	133	11.85	46.34
119.75-120.75	22	99	7.67	34.49
118.75-119.75	18	77	6.27	26.83
117.75-118.75	11	59	3.83	20.56
116.75-117.75	5	48	1.74	16.72
115.75-116.75	10	43	3.48	14.98
114.75-115.75	10	33	3.48	11.50
113.75-114.75	8	23	2.79	8.01
112.75-113.75	4	15	1.39	5.23
111.75-112.75	1	11	.35	3.83
110.75-111.75	4	10	1.39	3.48
109.75-110.75	2	6	.70	2.09
108.75-109.75	1	4	.35	1.39
107.75-108.75	1	3	.35	1.05
106.75-107.75	1	2	.35	.70
105.75-106.75	0	1	0.00	.35
104.75-105.75	0	1	0.00	.35
103.75-104.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

4T ELBOW (RADIALE) HT

RANGES	FRQ	CUMF	FRQ%	CUMF%
125.75-126.75	1	287	.35	100.00
124.75-125.75	0	286	0.00	99.65
123.75-124.75	0	286	0.00	99.65
122.75-123.75	0	286	0.00	99.65
121.75-122.75	1	286	.35	99.65
120.75-121.75	3	285	1.05	99.30
119.75-120.75	1	282	.35	98.26
118.75-119.75	3	281	1.05	97.91
117.75-118.75	5	278	1.74	96.86
116.75-117.75	6	273	2.09	95.12
115.75-116.75	9	267	3.14	93.03
114.75-115.75	8	258	2.79	89.90
113.75-114.75	17	250	5.92	87.11
112.75-113.75	19	233	6.62	81.18
111.75-112.75	17	214	5.92	74.56
110.75-111.75	24	197	8.36	68.64
109.75-110.75	26	173	9.06	60.28
108.75-109.75	18	147	6.27	51.22
107.75-108.75	22	129	7.67	44.95
106.75-107.75	18	107	6.27	37.28
105.75-106.75	22	89	7.67	31.01
104.75-105.75	16	67	5.57	23.34
103.75-104.75	19	51	6.62	17.77
102.75-103.75	7	32	2.44	11.15
101.75-102.75	4	25	1.39	8.71
100.75-101.75	6	21	2.09	7.32
99.75-100.75	8	15	2.79	5.23
98.75- 99.75	1	7	.35	2.44
97.75- 98.75	2	6	.70	2.09
96.75- 97.75	0	4	0.00	1.39
95.75- 96.75	2	4	.70	1.39
94.75- 95.75	1	2	.35	.70
93.75- 94.75	1	1	.35	.35

5T KNUCKLE HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
88.75- 89.75	1	287	.35	100.00
87.75- 88.75	0	286	0.00	99.65
86.75- 87.75	1	286	.35	99.65
85.75- 86.75	0	285	0.00	99.30
84.75- 85.75	1	285	.35	99.30
83.75- 84.75	3	284	1.05	98.95
82.75- 83.75	6	281	2.09	97.91
81.75- 82.75	6	275	2.09	95.82
80.75- 81.75	8	269	2.79	93.73
79.75- 80.75	15	261	5.23	90.94
78.75- 79.75	19	246	6.62	85.71
77.75- 78.75	24	227	8.36	79.09
76.75- 77.75	24	203	8.36	70.73
75.75- 76.75	27	179	9.41	62.37
74.75- 75.75	26	152	9.06	52.96
73.75- 74.75	27	126	9.41	43.90
72.75- 73.75	33	99	11.50	34.49
71.75- 72.75	16	66	5.57	23.00
70.75- 71.75	15	50	5.23	17.42
69.75- 70.75	14	35	4.88	12.20
68.75- 69.75	7	21	2.44	7.32
67.75- 68.75	5	14	1.74	4.88
66.75- 67.75	4	9	1.39	3.14
65.75- 66.75	2	5	.70	1.74
64.75- 65.75	2	3	.70	1.05
63.75- 64.75	0	1	0.00	.35
62.75- 63.75	0	1	0.00	.35
61.75- 62.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

6C WAIST HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
118.75-119.75	2	287	.70	100.00
117.75-118.75	0	285	0.00	99.30
116.75-117.75	2	285	.70	99.30
115.75-116.75	1	283	.35	98.61
114.75-115.75	5	282	1.74	98.26
113.75-114.75	8	277	2.79	96.52
112.75-113.75	4	269	1.39	93.73
111.75-112.75	3	265	1.05	92.33
110.75-111.75	11	262	3.83	91.29
109.75-110.75	12	251	4.18	87.46
108.75-109.75	13	239	4.53	83.28
107.75-108.75	18	226	6.27	78.75
106.75-107.75	8	208	2.79	72.47
105.75-106.75	17	200	5.92	69.69
104.75-105.75	24	183	8.36	63.76
103.75-104.75	30	159	10.45	55.40
102.75-103.75	17	129	5.92	44.95
101.75-102.75	16	112	5.57	39.02
100.75-101.75	17	96	5.92	33.45
99.75-100.75	16	79	5.57	27.53
98.75- 99.75	10	63	3.48	21.95
97.75- 98.75	12	53	4.18	18.47
96.75- 97.75	7	41	2.44	14.29
95.75- 96.75	7	34	2.44	11.85
94.75- 95.75	10	27	3.48	9.41
93.75- 94.75	7	17	2.44	5.92
92.75- 93.75	5	10	1.74	3.48
91.75- 92.75	1	5	.35	1.74
90.75- 91.75	3	4	1.05	1.39
89.75- 90.75	1	1	.35	.35

6C BUTTOCK HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
104.75-105.75	1	287	.35	100.00
103.75-104.75	0	286	0.00	99.65
102.75-103.75	1	286	.35	99.65
101.75-102.75	1	285	.35	99.30
100.75-101.75	1	284	.35	98.95
99.75-100.75	1	283	.35	98.61
98.75- 99.75	4	282	1.39	98.26
97.75- 98.75	7	278	2.44	96.86
96.75- 97.75	4	271	1.39	94.43
95.75- 96.75	10	267	3.48	93.03
94.75- 95.75	12	257	4.18	89.55
93.75- 94.75	10	245	3.48	85.37
92.75- 93.75	17	235	5.92	81.88
91.75- 92.75	18	218	6.27	75.96
90.75- 91.75	28	200	9.76	69.69
89.75- 90.75	19	172	6.62	59.93
88.75- 89.75	29	153	10.10	53.31
87.75- 88.75	28	124	9.76	43.21
86.75- 87.75	17	96	5.92	33.45
85.75- 86.75	13	79	4.53	27.53
84.75- 85.75	14	66	4.88	23.00
83.75- 84.75	13	52	4.53	18.12
82.75- 83.75	11	39	3.83	13.59
81.75- 82.75	5	28	1.74	9.76
80.75- 81.75	7	23	2.44	8.01
79.75- 80.75	6	16	2.09	5.57
78.75- 79.75	4	10	1.39	3.48
77.75- 78.75	2	6	.70	2.09
76.75- 77.75	3	4	1.05	1.39
75.75- 76.75	0	1	0.00	.35
74.75- 75.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

7T GLUTEAL FURROW HGT

RANGES	FRQ	CUMF	FRQ%	CUMF%
93.75- 94.75	1	287	.35	100.00
92.75- 93.75	0	286	0.00	99.65
91.75- 92.75	0	286	0.00	99.65
90.75- 91.75	2	286	.70	99.65
89.75- 90.75	1	284	.35	98.95
88.75- 89.75	5	283	1.74	98.61
87.75- 88.75	10	278	3.48	96.86
86.75- 87.75	6	268	2.09	93.38
85.75- 86.75	7	262	2.44	91.29
84.75- 85.75	9	255	3.14	88.85
83.75- 84.75	16	246	5.57	85.71
82.75- 83.75	25	230	8.71	80.14
81.75- 82.75	19	205	6.62	71.43
80.75- 81.75	29	186	10.10	64.81
79.75- 80.75	29	157	10.10	54.70
78.75- 79.75	25	128	8.71	44.60
77.75- 78.75	24	103	8.36	35.89
76.75- 77.75	23	79	8.01	27.53
75.75- 76.75	16	56	5.57	19.51
74.75- 75.75	10	40	3.48	13.94
73.75- 74.75	11	30	3.83	10.45
72.75- 73.75	6	19	2.09	6.62
71.75- 72.75	7	13	2.44	4.53
70.75- 71.75	3	6	1.05	2.09
69.75- 70.75	1	3	.35	1.05
68.75- 69.75	1	2	.35	.70
67.75- 68.75	0	1	0.00	.35
66.75- 67.75	0	1	0.00	.35
65.75- 66.75	1	1	.35	.35

8T TIBIALE HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
55.75- 56.25	1	283	.35	100.00
55.25- 55.75	1	282	.35	99.65
54.75- 55.25	1	281	.35	99.29
54.25- 54.75	2	280	.71	98.94
53.75- 54.25	1	278	.35	98.23
53.25- 53.75	1	277	.35	97.88
52.75- 53.25	5	276	1.77	97.53
52.25- 52.75	11	271	3.89	95.76
51.75- 52.25	11	260	3.89	91.87
51.25- 51.75	10	249	3.53	87.99
50.75- 51.25	11	239	3.89	84.45
50.25- 50.75	17	228	6.01	80.57
49.75- 50.25	15	211	5.30	74.56
49.25- 49.75	16	196	5.65	69.26
48.75- 49.25	21	180	7.42	63.60
48.25- 48.75	18	159	6.36	56.18
47.75- 48.25	15	141	5.30	49.82
47.25- 47.75	26	126	9.19	44.52
46.75- 47.25	20	100	7.07	35.34
46.25- 46.75	24	80	8.48	28.27
45.75- 46.25	13	56	4.59	19.79
45.25- 45.75	12	43	4.24	15.19
44.75- 45.25	9	31	3.18	10.95
44.25- 44.75	2	22	.71	7.77
43.75- 44.25	3	20	1.06	7.07
43.25- 43.75	3	17	1.06	6.01
42.75- 43.25	4	14	1.41	4.95
42.25- 42.75	3	10	1.06	3.53
41.75- 42.25	3	7	1.06	2.47
41.25- 41.75	1	4	.35	1.41
40.75- 41.25	0	3	0.00	1.06
40.25- 40.75	3	3	1.06	1.06

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

9T ACROMION-RADIALE L

RANGES		FRQ	CUMF	FRQ%	CUMF%
39.25-	39.55	1	287	.35	100.00
38.95-	39.25	0	286	0.00	99.65
38.65-	38.95	1	286	.35	99.65
38.35-	38.65	0	285	0.00	99.30
38.05-	38.35	0	285	0.00	99.30
37.75-	38.05	2	285	.70	99.30
37.45-	37.75	2	283	.70	98.61
37.15-	37.45	1	281	.35	97.91
36.85-	37.15	6	280	2.09	97.56
36.55-	36.85	4	274	1.39	95.47
36.25-	36.55	9	270	3.14	94.08
35.95-	36.25	7	261	2.44	90.94
35.65-	35.95	10	254	3.48	88.50
35.35-	35.65	16	244	5.57	85.02
35.05-	35.35	9	228	3.14	79.44
34.75-	35.05	17	219	5.92	76.31
34.45-	34.75	16	202	5.57	70.38
34.15-	34.45	18	186	6.27	64.81
33.85-	34.15	15	168	5.23	58.54
33.55-	33.85	18	153	6.27	53.31
33.25-	33.55	15	135	5.23	47.04
32.95-	33.25	20	120	6.97	41.81
32.65-	32.95	13	100	4.53	34.84
32.35-	32.65	23	87	8.01	30.31
32.05-	32.35	16	64	5.57	22.30
31.75-	32.05	15	48	5.23	16.72
31.45-	31.75	7	33	2.44	11.50
31.15-	31.45	9	26	3.14	9.06
30.85-	31.15	2	17	.70	5.92
30.55-	30.85	2	15	.70	5.23
30.25-	30.55	4	13	1.39	4.53
29.95-	30.25	4	9	1.39	3.14
29.65-	29.95	0	5	0.00	1.74
29.35-	29.65	2	5	.70	1.74
29.05-	29.35	1	3	.35	1.05
28.75-	29.05	1	2	.35	.70
28.45-	28.75	0	1	0.00	.35
28.15-	28.45	0	1	0.00	.35
27.85-	28.15	1	1	.35	.35

10T RADIALE-STYLION LH

RANGES		FRQ	CUMF	FRQ%	CUMF%
31.35-	31.65	1	287	.35	100.00
31.15-	31.35	0	286	0.00	99.65
30.95-	31.15	0	286	0.00	99.65
30.75-	30.95	0	286	0.00	99.65
30.55-	30.75	1	286	.35	99.65
30.35-	30.55	4	285	1.39	99.30
30.15-	30.35	2	281	.70	97.91
29.95-	30.15	2	279	.70	97.21
29.75-	29.95	2	277	.70	96.52
29.55-	29.75	4	275	1.39	95.82
29.35-	29.55	1	271	.35	94.43
29.15-	29.35	5	270	1.74	94.08
28.95-	29.15	1	265	.35	92.33
28.75-	28.95	7	264	2.44	91.99
28.55-	28.75	9	257	3.14	89.55
28.35-	28.55	12	248	4.18	86.41
28.15-	28.35	5	236	1.74	82.23
27.95-	28.15	11	231	3.83	80.49
27.75-	27.95	12	220	4.18	76.66
27.55-	27.75	20	208	6.97	72.47
27.35-	27.55	14	188	4.88	65.51
27.15-	27.35	5	174	1.74	60.63
26.95-	27.15	13	169	4.53	58.89
26.75-	26.95	10	156	3.48	54.36
26.55-	26.75	17	146	5.92	50.87
26.35-	26.55	10	129	3.48	44.95
26.15-	26.35	18	119	6.27	41.46
25.95-	26.15	18	101	6.27	35.19
25.75-	25.95	17	83	5.92	28.92
25.55-	25.75	11	66	3.83	23.00
25.35-	25.55	13	55	4.53	19.16
25.15-	25.35	6	42	2.09	14.63
24.95-	25.15	10	36	3.48	12.54
24.75-	24.95	2	26	.70	9.06
24.55-	24.75	4	24	1.39	8.36
24.35-	24.55	6	20	2.09	6.97
24.15-	24.35	5	14	1.74	4.88
23.95-	24.15	1	9	.35	3.14
23.75-	23.95	1	8	.35	2.79
23.55-	23.75	2	7	.70	2.44
23.35-	23.55	2	5	.70	1.74
23.15-	23.35	0	3	0.00	1.05
22.95-	23.15	0	3	0.00	1.05
22.75-	22.95	1	3	.35	1.05
22.55-	22.75	0	2	0.00	.70
22.35-	22.55	0	2	0.00	.70
22.15-	22.35	0	2	0.00	.70
21.95-	22.15	1	2	.35	.70
21.75-	21.95	0	1	0.00	.35
21.55-	21.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

11C SITTING HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
99.75-100.25	2	287	.70	100.00
99.25- 99.75	0	285	0.00	99.30
98.75- 99.25	0	285	0.00	99.30
98.25- 98.75	0	285	0.00	99.30
97.75- 98.25	2	285	.70	99.30
97.25- 97.75	1	283	.35	98.61
96.75- 97.25	2	282	.70	98.26
96.25- 96.75	5	280	1.74	97.56
95.75- 96.25	2	275	.70	95.82
95.25- 95.75	5	273	1.74	95.12
94.75- 95.25	2	268	.70	93.38
94.25- 94.75	4	266	1.39	92.68
93.75- 94.25	6	262	2.09	91.29
93.25- 93.75	8	256	2.79	89.20
92.75- 93.25	6	248	2.09	86.41
92.25- 92.75	10	242	3.48	84.32
91.75- 92.25	18	232	6.27	80.84
91.25- 91.75	11	214	3.83	74.56
90.75- 91.25	9	203	3.14	70.73
90.25- 90.75	13	194	4.53	67.60
89.75- 90.25	19	181	6.62	63.07
89.25- 89.75	16	162	5.57	56.45
88.75- 89.25	19	146	6.62	50.87
88.25- 88.75	22	127	7.67	44.25
87.75- 88.25	14	105	4.88	36.59
87.25- 87.75	19	91	6.62	31.71
86.75- 87.25	10	72	3.48	25.09
86.25- 86.75	12	62	4.18	21.60
85.75- 86.25	10	50	3.48	17.42
85.25- 85.75	4	40	1.39	13.94
84.75- 85.25	7	36	2.44	12.54
84.25- 84.75	5	29	1.74	10.10
83.75- 84.25	6	24	2.09	8.36
83.25- 83.75	6	18	2.09	6.27
82.75- 83.25	2	12	.70	4.18
82.25- 82.75	1	10	.35	3.48
81.75- 82.25	3	9	1.05	3.14
81.25- 81.75	2	6	.70	2.09
80.75- 81.25	1	4	.35	1.39
80.25- 80.75	1	3	.35	1.05
79.75- 80.25	0	2	0.00	.70
79.25- 79.75	0	2	0.00	.70
78.75- 79.25	1	2	.35	.70
78.25- 78.75	0	1	0.00	.35
77.75- 78.25	1	1	.35	.35

12C EYE HEIGHT/SITTING

RANGES	FRQ	CUMF	FRQ%	CUMF%
86.25- 86.75	2	287	.70	100.00
85.75- 86.25	1	285	.35	99.30
85.25- 85.75	0	284	0.00	98.95
84.75- 85.25	2	284	.70	98.95
84.25- 84.75	2	282	.70	98.26
83.75- 84.25	4	280	1.39	97.56
83.25- 83.75	2	276	.70	96.17
82.75- 83.25	7	274	2.44	95.47
82.25- 82.75	4	267	1.39	93.03
81.75- 82.25	6	263	2.09	91.64
81.25- 81.75	9	257	3.14	89.55
80.75- 81.25	8	248	2.79	86.41
80.25- 80.75	6	240	2.09	83.62
79.75- 80.25	13	234	4.53	81.53
79.25- 79.75	16	221	5.57	77.00
78.75- 79.25	13	205	4.53	71.43
78.25- 78.75	16	192	5.57	66.90
77.75- 78.25	17	176	5.92	61.32
77.25- 77.75	18	159	6.27	55.40
76.75- 77.25	15	141	5.23	49.13
76.25- 76.75	21	126	7.32	43.90
75.75- 76.25	17	105	5.92	36.59
75.25- 75.75	15	88	5.23	30.66
74.75- 75.25	18	73	6.27	25.44
74.25- 74.75	10	55	3.48	19.16
73.75- 74.25	9	45	3.14	15.68
73.25- 73.75	9	36	3.14	12.54
72.75- 73.25	7	27	2.44	9.41
72.25- 72.75	4	20	1.39	6.97
71.75- 72.25	3	16	1.05	5.57
71.25- 71.75	2	13	.70	4.53
70.75- 71.25	3	11	1.05	3.83
70.25- 70.75	2	8	.70	2.79
69.75- 70.25	3	6	1.05	2.09
69.25- 69.75	0	3	0.00	1.05
68.75- 69.25	0	3	0.00	1.05
68.25- 68.75	1	3	.35	1.05
67.75- 68.25	0	2	0.00	.70
67.25- 67.75	1	2	.35	.70
66.75- 67.25	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

13C SHOULDER-ELBOW LTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
41.65-	41.95	1	287	.35	100.00
41.35-	41.65	0	286	0.00	99.65
41.05-	41.35	1	286	.35	99.65
40.75-	41.05	1	285	.35	99.30
40.45-	40.75	1	284	.35	98.95
40.15-	40.45	2	283	.70	98.61
39.85-	40.15	2	281	.70	97.91
39.55-	39.85	4	279	1.39	97.21
39.25-	39.55	7	275	2.44	95.82
38.95-	39.25	4	268	1.39	93.38
38.65-	38.95	7	264	2.44	91.99
38.35-	38.65	8	257	2.79	89.55
38.05-	38.35	10	249	3.48	86.76
37.75-	38.05	19	239	6.62	83.28
37.45-	37.75	11	220	3.83	76.66
37.15-	37.45	13	209	4.53	72.82
36.85-	37.15	13	196	4.53	68.29
36.55-	36.85	24	183	8.36	63.76
36.25-	36.55	19	159	6.62	55.40
35.95-	36.25	12	140	4.18	48.78
35.65-	35.95	17	128	5.92	44.60
35.35-	35.65	24	111	8.36	38.68
35.05-	35.35	13	87	4.53	30.31
34.75-	35.05	21	74	7.32	25.78
34.45-	34.75	15	53	5.23	18.47
34.15-	34.45	7	38	2.44	13.24
33.85-	34.15	7	31	2.44	10.80
33.55-	33.85	7	24	2.44	8.36
33.25-	33.55	5	17	1.74	5.92
32.95-	33.25	1	12	.35	4.18
32.65-	32.95	4	11	1.39	3.83
32.35-	32.65	2	7	.70	2.44
32.05-	32.35	1	5	.35	1.74
31.75-	32.05	0	4	0.00	1.39
31.45-	31.75	2	4	.70	1.39
31.15-	31.45	2	2	.70	.70

11T ELBOW-GRIP LENGTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
40.75-	41.05	1	287	.35	100.00
40.45-	40.75	0	286	0.00	99.65
40.15-	40.45	1	286	.35	99.65
39.85-	40.15	1	285	.35	99.30
39.55-	39.85	2	284	.70	98.95
39.25-	39.55	1	282	.35	98.26
38.95-	39.25	3	281	1.05	97.91
38.65-	38.95	1	278	.35	96.86
38.35-	38.65	5	277	1.74	96.52
38.05-	38.35	2	272	.70	94.77
37.75-	38.05	4	270	1.39	94.08
37.45-	37.75	6	266	2.09	92.68
37.15-	37.45	6	260	2.09	90.59
36.85-	37.15	9	254	3.14	88.50
36.55-	36.85	15	245	5.23	85.37
36.25-	36.55	14	230	4.88	80.14
35.95-	36.25	10	216	3.48	75.26
35.65-	35.95	21	206	7.32	71.78
35.35-	35.65	14	185	4.88	64.46
35.05-	35.35	21	171	7.32	59.58
34.75-	35.05	21	150	7.32	52.26
34.45-	34.75	19	129	6.62	44.95
34.15-	34.45	16	110	5.57	38.33
33.85-	34.15	20	94	6.97	32.75
33.55-	33.85	11	74	3.83	25.78
33.25-	33.55	12	63	4.18	21.95
32.95-	33.25	12	51	4.18	17.77
32.65-	32.95	6	39	2.09	13.59
32.35-	32.65	6	33	2.09	11.50
32.05-	32.35	9	27	3.14	9.41
31.75-	32.05	2	18	.70	6.27
31.45-	31.75	3	16	1.05	5.57
31.15-	31.45	4	13	1.39	4.53
30.85-	31.15	3	9	1.05	3.14
30.55-	30.85	3	6	1.05	2.09
30.25-	30.55	0	3	0.00	1.05
29.95-	30.25	1	3	.35	1.05
29.65-	29.95	1	2	.35	.70
29.35-	29.65	0	1	0.00	.35
29.05-	29.35	0	1	0.00	.35
28.75-	29.05	0	1	0.00	.35
28.45-	28.75	0	1	0.00	.35
28.15-	28.45	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

14C ELBOW-FINGERTIP LH

RANGES	FRQ	CUMF	FRQ%	CUMF%
54.55- 54.85	1	287	.35	100.00
54.25- 54.55	1	286	.35	99.65
53.95- 54.25	0	285	0.00	99.30
53.65- 53.95	0	285	0.00	99.30
53.35- 53.65	2	285	.70	99.30
53.05- 53.35	2	283	.70	98.61
52.75- 53.05	1	281	.35	97.91
52.45- 52.75	3	280	1.05	97.56
52.15- 52.45	2	277	.70	96.52
51.85- 52.15	4	275	1.39	95.82
51.55- 51.85	4	271	1.39	94.43
51.25- 51.55	3	267	1.05	93.03
50.95- 51.25	6	264	2.09	91.99
50.65- 50.95	4	258	1.39	89.90
50.35- 50.65	5	254	1.74	88.50
50.05- 50.35	8	249	2.79	86.76
49.75- 50.05	12	241	4.18	83.97
49.45- 49.75	10	229	3.48	79.79
49.15- 49.45	10	219	3.48	76.31
48.85- 49.15	12	209	4.18	72.82
48.55- 48.85	13	197	4.53	68.64
48.25- 48.55	21	184	7.32	64.11
47.95- 48.25	11	163	3.83	56.79
47.65- 47.95	13	152	4.53	52.96
47.35- 47.65	13	139	4.53	48.43
47.05- 47.35	19	126	6.62	43.90
46.75- 47.05	11	107	3.83	37.28
46.45- 46.75	14	96	4.88	33.45
46.15- 46.45	14	82	4.88	28.57
45.85- 46.15	9	68	3.14	23.69
45.55- 45.85	7	59	2.44	20.56
45.25- 45.55	11	52	3.83	18.12
44.95- 45.25	9	41	3.14	14.29
44.65- 44.95	5	32	1.74	11.15
44.35- 44.65	4	27	1.39	9.41
44.05- 44.35	3	23	1.05	8.01
43.75- 44.05	5	20	1.74	6.97
43.45- 43.75	4	15	1.39	5.23
43.15- 43.45	3	11	1.05	3.83
42.85- 43.15	2	8	.70	2.79
42.55- 42.85	1	6	.35	2.09
42.25- 42.55	0	5	0.00	1.74
41.95- 42.25	2	5	.70	1.74
41.65- 41.95	0	3	0.00	1.05
41.35- 41.65	0	3	0.00	1.05
41.05- 41.35	0	3	0.00	1.05
40.75- 41.05	1	3	.35	1.05
40.45- 40.75	0	2	0.00	.70
40.15- 40.45	0	2	0.00	.70
39.85- 40.15	2	2	.70	.70

15C KNEE HEIGHT/SIT

RANGES	FRQ	CUMF	FRQ%	CUMF%
62.75- 63.25	2	287	.70	100.00
62.25- 62.75	1	285	.35	99.30
61.75- 62.25	2	284	.70	98.95
61.25- 61.75	2	282	.70	98.26
60.75- 61.25	1	280	.35	97.56
60.25- 60.75	4	279	1.39	97.21
59.75- 60.25	5	275	1.74	95.82
59.25- 59.75	10	270	3.48	94.08
58.75- 59.25	9	260	3.14	90.59
58.25- 58.75	10	251	3.48	87.46
57.75- 58.25	9	241	3.14	83.97
57.25- 57.75	9	232	3.14	80.84
56.75- 57.25	17	223	5.92	77.70
56.25- 56.75	19	206	6.62	71.78
55.75- 56.25	15	187	5.23	65.16
55.25- 55.75	24	172	8.36	59.93
54.75- 55.25	18	148	6.27	51.57
54.25- 54.75	18	130	6.27	45.30
53.75- 54.25	15	112	5.23	39.02
53.25- 53.75	22	97	7.67	33.80
52.75- 53.25	17	75	5.92	26.13
52.25- 52.75	14	58	4.88	20.21
51.75- 52.25	7	44	2.44	15.33
51.25- 51.75	11	37	3.83	12.89
50.75- 51.25	6	26	2.09	9.06
50.25- 50.75	6	20	2.09	6.97
49.75- 50.25	1	14	.35	4.88
49.25- 49.75	4	13	1.39	4.53
48.75- 49.25	3	9	1.05	3.14
48.25- 48.75	1	6	.35	2.09
47.75- 48.25	1	5	.35	1.74
47.25- 47.75	1	4	.35	1.39
46.75- 47.25	2	3	.70	1.05
46.25- 46.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

16C POPLITEAL HEIGHT

RANGES		FRQ	CUMF	FRQ%	CUMF%
51.75-	52.25	1	287	.35	100.00
51.25-	51.75	0	286	0.00	99.65
50.75-	51.25	2	286	.70	99.65
50.25-	50.75	1	284	.35	98.95
49.75-	50.25	1	283	.35	98.61
49.25-	49.75	4	282	1.39	98.26
48.75-	49.25	6	278	2.09	96.86
48.25-	48.75	6	272	2.09	94.77
47.75-	48.25	8	266	2.79	92.68
47.25-	47.75	11	258	3.83	89.90
46.75-	47.25	13	247	4.53	86.06
46.25-	46.75	16	234	5.57	81.53
45.75-	46.25	16	218	5.57	75.96
45.25-	45.75	18	202	6.27	70.38
44.75-	45.25	18	184	6.27	64.11
44.25-	44.75	17	166	5.92	57.84
43.75-	44.25	24	149	8.36	51.92
43.25-	43.75	29	125	10.10	43.55
42.75-	43.25	17	96	5.92	33.45
42.25-	42.75	16	79	5.57	27.53
41.75-	42.25	18	63	6.27	21.95
41.25-	41.75	11	45	3.83	15.68
40.75-	41.25	6	34	2.09	11.85
40.25-	40.75	8	28	2.79	9.76
39.75-	40.25	7	20	2.44	6.97
39.25-	39.75	2	13	.70	4.53
38.75-	39.25	3	11	1.05	3.83
38.25-	38.75	2	8	.70	2.79
37.75-	38.25	1	6	.35	2.09
37.25-	37.75	4	5	1.39	1.74
36.75-	37.25	1	1	.35	.35

17C BUTTOCK-KNEE LNGTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
70.25-	70.75	1	287	.35	100.00
69.75-	70.25	0	286	0.00	99.65
69.25-	69.75	1	286	.35	99.65
68.75-	69.25	0	285	0.00	99.30
68.25-	68.75	0	285	0.00	99.30
67.75-	68.25	0	285	0.00	99.30
67.25-	67.75	2	285	.70	99.30
66.75-	67.25	2	283	.70	98.61
66.25-	66.75	4	281	1.39	97.91
65.75-	66.25	5	277	1.74	96.52
65.25-	65.75	9	272	3.14	94.77
64.75-	65.25	5	263	1.74	91.64
64.25-	64.75	7	258	2.44	89.90
63.75-	64.25	11	251	3.83	87.46
63.25-	63.75	12	240	4.18	83.62
62.75-	63.25	19	228	6.62	79.44
62.25-	62.75	16	209	5.57	72.82
61.75-	62.25	11	193	3.83	67.25
61.25-	61.75	22	182	7.67	63.41
60.75-	61.25	21	160	7.32	55.75
60.25-	60.75	13	139	4.53	48.43
59.75-	60.25	18	126	6.27	43.90
59.25-	59.75	17	108	5.92	37.63
58.75-	59.25	13	91	4.53	31.71
58.25-	58.75	15	78	5.23	27.18
57.75-	58.25	17	63	5.92	21.95
57.25-	57.75	10	46	3.48	16.03
56.75-	57.25	13	36	4.53	12.54
56.25-	56.75	4	23	1.39	8.01
55.75-	56.25	6	19	2.09	6.62
55.25-	55.75	4	13	1.39	4.53
54.75-	55.25	1	9	.35	3.14
54.25-	54.75	0	8	0.00	2.79
53.75-	54.25	3	8	1.05	2.79
53.25-	53.75	3	5	1.05	1.74
52.75-	53.25	0	2	0.00	.70
52.25-	52.75	2	2	.70	.70

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

18C CHEST DEPTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
27.15-	27.35	2	287	.70	100.00
26.95-	27.15	0	285	0.00	99.30
26.75-	26.95	0	285	0.00	99.30
26.55-	26.75	1	285	.35	99.30
26.35-	26.55	2	284	.70	98.95
26.15-	26.35	5	282	1.74	98.26
25.95-	26.15	3	277	1.05	96.52
25.75-	25.95	0	274	0.00	95.47
25.55-	25.75	2	274	.70	95.47
25.35-	25.55	1	272	.35	94.77
25.15-	25.35	2	271	.70	94.43
24.95-	25.15	1	269	.35	93.73
24.75-	24.95	4	268	1.39	93.38
24.55-	24.75	4	264	1.39	91.99
24.35-	24.55	8	260	2.79	90.59
24.15-	24.35	2	252	.70	87.80
23.95-	24.15	4	250	1.39	87.11
23.75-	23.95	9	246	3.14	85.71
23.55-	23.75	3	237	1.05	82.58
23.35-	23.55	3	234	1.05	81.53
23.15-	23.35	10	231	3.48	80.49
22.95-	23.15	6	221	2.09	77.00
22.75-	22.95	5	215	1.74	74.91
22.55-	22.75	7	210	2.44	73.17
22.35-	22.55	10	203	3.48	70.73
22.15-	22.35	14	193	4.88	67.25
21.95-	22.15	9	179	3.14	62.37
21.75-	21.95	5	170	1.74	59.23
21.55-	21.75	10	165	3.48	57.49
21.35-	21.55	12	155	4.18	54.01
21.15-	21.35	11	143	3.83	49.83
20.95-	21.15	12	132	4.18	45.99
20.75-	20.95	14	120	4.88	41.81
20.55-	20.75	10	106	3.48	36.93
20.35-	20.55	15	96	5.23	33.45
20.15-	20.35	12	81	4.18	28.22
19.95-	20.15	12	69	4.18	24.04
19.75-	19.95	15	57	5.23	19.86
19.55-	19.75	8	42	2.79	14.63
19.35-	19.55	8	34	2.79	11.85
19.15-	19.35	7	26	2.44	9.06
18.95-	19.15	4	19	1.39	6.62
18.75-	18.95	3	15	1.05	5.23
18.55-	18.75	3	12	1.05	4.18
18.35-	18.55	2	9	.70	3.14
18.15-	18.35	2	7	.70	2.44
17.95-	18.15	1	5	.35	1.74
17.75-	17.95	2	4	.70	1.39
17.55-	17.75	0	2	0.00	.70
17.35-	17.55	2	2	.70	.70

19C WAIST DEPTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
28.75-	29.05	1	280	.36	100.00
28.45-	28.75	0	279	0.00	99.64
28.15-	28.45	1	279	.36	99.64
27.85-	28.15	0	278	0.00	99.29
27.55-	27.85	0	278	0.00	99.29
27.25-	27.55	0	278	0.00	99.29
26.95-	27.25	0	278	0.00	99.29
26.65-	26.95	1	278	.36	99.29
26.35-	26.65	3	277	1.07	98.93
26.05-	26.35	1	274	.36	97.86
25.75-	26.05	2	273	.71	97.50
25.45-	25.75	2	271	.71	96.79
25.15-	25.45	0	269	0.00	96.07
24.85-	25.15	4	269	1.43	96.07
24.55-	24.85	1	265	.36	94.64
24.25-	24.55	2	264	.71	94.29
23.95-	24.25	1	262	.36	93.57
23.65-	23.95	3	261	1.07	93.21
23.35-	23.65	6	258	2.14	92.14
23.05-	23.35	3	252	1.07	90.00
22.75-	23.05	6	249	2.14	88.93
22.45-	22.75	6	243	2.14	86.79
22.15-	22.45	5	237	1.79	84.64
21.85-	22.15	7	232	2.50	82.86
21.55-	21.85	11	225	3.93	80.36
21.25-	21.55	17	214	6.07	76.43
20.95-	21.25	12	197	4.29	70.36
20.65-	20.95	10	185	3.57	66.07
20.35-	20.65	14	175	5.00	62.50
20.05-	20.35	15	161	5.36	57.50
19.75-	20.05	16	146	5.71	52.14
19.45-	19.75	10	130	3.57	46.43
19.15-	19.45	22	120	7.86	42.86
18.85-	19.15	17	98	6.07	35.00
18.55-	18.85	13	81	4.64	28.93
18.25-	18.55	17	68	6.07	24.29
17.95-	18.25	15	51	5.36	18.21
17.65-	17.95	17	36	6.07	12.86
17.35-	17.65	9	19	3.21	6.79
17.05-	17.35	4	10	1.43	3.57
16.75-	17.05	2	6	.71	2.14
16.45-	16.75	2	4	.71	1.43
16.15-	16.45	1	2	.36	.71
15.85-	16.15	1	1	.36	.36

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

16T BIACROMIAL BREADTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
44.65- 44.95	1	287	.35	100.00
44.35- 44.65	1	286	.35	99.65
44.05- 44.35	0	285	0.00	99.30
43.75- 44.05	1	285	.35	99.30
43.45- 43.75	3	284	1.05	98.95
43.15- 43.45	1	281	.35	97.91
42.85- 43.15	4	280	1.39	97.56
42.55- 42.85	5	276	1.74	96.17
42.25- 42.55	4	271	1.39	94.43
41.95- 42.25	6	267	2.09	93.03
41.65- 41.95	8	261	2.79	90.94
41.35- 41.65	16	253	5.57	88.15
41.05- 41.35	10	237	3.48	82.58
40.75- 41.05	17	227	5.92	79.09
40.45- 40.75	18	210	6.27	73.17
40.15- 40.45	18	192	6.27	66.90
39.85- 40.15	18	174	6.27	60.63
39.55- 39.85	12	156	4.18	54.36
39.25- 39.55	12	144	4.18	50.17
38.95- 39.25	17	132	5.92	45.99
38.65- 38.95	16	115	5.57	40.07
38.35- 38.65	21	99	7.32	34.49
38.05- 38.35	12	78	4.18	27.18
37.75- 38.05	10	66	3.48	23.00
37.45- 37.75	14	56	4.88	19.51
37.15- 37.45	2	42	.70	14.63
36.85- 37.15	4	40	1.39	13.94
36.55- 36.85	10	36	3.48	12.54
36.25- 36.55	11	26	3.83	9.06
35.95- 36.25	2	15	.70	5.23
35.65- 35.95	6	13	2.09	4.53
35.35- 35.65	2	7	.70	2.44
35.05- 35.35	1	5	.35	1.74
34.75- 35.05	1	4	.35	1.39
34.45- 34.75	1	3	.35	1.05
34.15- 34.45	1	2	.35	.70
33.85- 34.15	0	1	0.00	.35
33.55- 33.85	1	1	.35	.35

25C SHOULDER CIRCUMFER

RANGES	FRQ	CUMF	FRQ%	CUMF%
129.75-130.75	1	287	.35	100.00
128.75-129.75	1	286	.35	99.65
127.75-128.75	0	285	0.00	99.30
126.75-127.75	0	285	0.00	99.30
125.75-126.75	0	285	0.00	99.30
124.75-125.75	3	285	1.05	99.30
123.75-124.75	2	282	.70	98.26
122.75-123.75	1	280	.35	97.56
121.75-122.75	4	279	1.39	97.21
120.75-121.75	9	275	3.14	95.82
119.75-120.75	2	266	.70	92.68
118.75-119.75	10	264	3.48	91.99
117.75-118.75	9	254	3.14	88.50
116.75-117.75	10	245	3.48	85.37
115.75-116.75	16	235	5.57	81.88
114.75-115.75	6	219	2.09	76.31
113.75-114.75	14	213	4.88	74.22
112.75-113.75	13	199	4.53	69.34
111.75-112.75	15	186	5.23	64.81
110.75-111.75	21	171	7.32	59.58
109.75-110.75	25	150	8.71	52.26
108.75-109.75	13	125	4.53	43.55
107.75-108.75	17	112	5.92	39.02
106.75-107.75	18	95	6.27	33.10
105.75-106.75	21	77	7.32	26.83
104.75-105.75	15	56	5.23	19.51
103.75-104.75	12	41	4.18	14.29
102.75-103.75	7	29	2.44	10.10
101.75-102.75	4	22	1.39	7.67
100.75-101.75	4	18	1.39	6.27
99.75-100.75	7	14	2.44	4.88
98.75- 99.75	5	7	1.74	2.44
97.75- 98.75	0	2	0.00	.70
96.75- 97.75	1	2	.35	.70
95.75- 96.75	0	1	0.00	.35
94.75- 95.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

27C CHEST CIRC

RANGES	FRQ	CUMF	FRQ%	CUMF%
110.75-111.75	3	287	1.05	100.00
109.75-110.75	1	284	.35	98.95
108.75-109.75	2	283	.70	98.61
107.75-108.75	1	281	.35	97.91
106.75-107.75	3	280	1.05	97.56
105.75-106.75	4	277	1.39	96.52
104.75-105.75	2	273	.70	95.12
103.75-104.75	4	271	1.39	94.43
102.75-103.75	5	267	1.74	93.03
101.75-102.75	9	262	3.14	91.29
100.75-101.75	4	253	1.39	88.15
99.75-100.75	9	249	3.14	86.76
98.75- 99.75	9	240	3.14	83.62
97.75- 98.75	9	231	3.14	80.49
96.75- 97.75	10	222	3.48	77.35
95.75- 96.75	12	212	4.18	73.87
94.75- 95.75	15	200	5.23	69.69
93.75- 94.75	14	185	4.88	64.46
92.75- 93.75	12	171	4.18	59.58
91.75- 92.75	13	159	4.53	55.40
90.75- 91.75	24	146	8.36	50.87
89.75- 90.75	15	122	5.23	42.51
88.75- 89.75	19	107	6.62	37.28
87.75- 88.75	22	88	7.67	30.66
86.75- 87.75	12	66	4.18	23.00
85.75- 86.75	15	54	5.23	18.82
84.75- 85.75	18	39	6.27	13.59
83.75- 84.75	10	21	3.48	7.32
82.75- 83.75	4	11	1.39	3.83
81.75- 82.75	1	7	.35	2.44
80.75- 81.75	3	6	1.05	2.09
79.75- 80.75	1	3	.35	1.05
78.75- 79.75	1	2	.35	.70
77.75- 78.75	1	1	.35	.35

29C WAIST CIRCUMFERNCE

RANGES	FRQ	CUMF	FRQ%	CUMF%
107.75-108.75	1	287	.35	100.00
106.75-107.75	0	286	0.00	99.65
105.75-106.75	0	286	0.00	99.65
104.75-105.75	1	286	.35	99.65
103.75-104.75	2	285	.70	99.30
102.75-103.75	0	283	0.00	98.61
101.75-102.75	1	283	.35	98.61
100.75-101.75	0	282	0.00	98.26
99.75-100.75	1	282	.35	98.26
98.75- 99.75	1	281	.35	97.91
97.75- 98.75	0	280	0.00	97.56
96.75- 97.75	1	280	.35	97.56
95.75- 96.75	1	279	.35	97.21
94.75- 95.75	4	278	1.39	96.86
93.75- 94.75	5	274	1.74	95.47
92.75- 93.75	4	269	1.39	93.73
91.75- 92.75	6	265	2.09	92.33
90.75- 91.75	2	259	.70	90.24
89.75- 90.75	2	257	.70	89.55
88.75- 89.75	4	255	1.39	88.85
87.75- 88.75	3	251	1.05	87.46
86.75- 87.75	3	248	1.05	86.41
85.75- 86.75	15	245	5.23	85.37
84.75- 85.75	4	230	1.39	80.14
83.75- 84.75	4	226	1.39	78.75
82.75- 83.75	9	222	3.14	77.35
81.75- 82.75	6	213	2.09	74.22
80.75- 81.75	7	207	2.44	72.13
79.75- 80.75	9	200	3.14	69.69
78.75- 79.75	15	191	5.23	66.55
77.75- 78.75	13	176	4.53	61.32
76.75- 77.75	8	163	2.79	56.79
75.75- 76.75	29	155	10.10	54.01
74.75- 75.75	22	126	7.67	43.90
73.75- 74.75	25	104	8.71	36.24
72.75- 73.75	18	79	6.27	27.53
71.75- 72.75	11	61	3.83	21.25
70.75- 71.75	16	50	5.57	17.42
69.75- 70.75	11	34	3.83	11.85
68.75- 69.75	5	23	1.74	8.01
67.75- 68.75	8	18	2.79	6.27
66.75- 67.75	5	10	1.74	3.48
65.75- 66.75	3	5	1.05	1.74
64.75- 65.75	1	2	.35	.70
63.75- 64.75	0	1	0.00	.35
62.75- 63.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

19T WAIST C, OMPHALION

RANGES	FRQ	CUMF	FRQ%	CUMF%
107.75-108.75	1	287	.35	100.00
106.75-107.75	0	286	0.00	99.65
105.75-106.75	1	286	.35	99.65
104.75-105.75	1	285	.35	99.30
103.75-104.75	1	284	.35	98.95
102.75-103.75	1	283	.35	98.61
101.75-102.75	1	282	.35	98.26
100.75-101.75	0	281	0.00	97.91
99.75-100.75	1	281	.35	97.91
98.75- 99.75	3	280	1.05	97.56
97.75- 98.75	1	277	.35	96.52
96.75- 97.75	0	276	0.00	96.17
95.75- 96.75	4	276	1.39	96.17
94.75- 95.75	4	272	1.39	94.77
93.75- 94.75	0	268	0.00	93.38
92.75- 93.75	3	268	1.05	93.38
91.75- 92.75	6	265	2.09	92.33
90.75- 91.75	3	259	1.05	90.24
89.75- 90.75	3	256	1.05	89.20
88.75- 89.75	1	253	.35	88.15
87.75- 88.75	5	252	1.74	87.80
86.75- 87.75	4	247	1.39	86.06
85.75- 86.75	12	243	4.18	84.67
84.75- 85.75	5	231	1.74	80.49
83.75- 84.75	5	226	1.74	78.75
82.75- 83.75	9	221	3.14	77.00
81.75- 82.75	4	212	1.39	73.87
80.75- 81.75	9	208	3.14	72.47
79.75- 80.75	7	199	2.44	69.34
78.75- 79.75	19	192	6.62	66.90
77.75- 78.75	11	173	3.83	60.28
76.75- 77.75	10	162	3.48	56.45
75.75- 76.75	29	152	10.10	52.96
74.75- 75.75	23	123	8.01	42.86
73.75- 74.75	21	100	7.32	34.84
72.75- 73.75	18	79	6.27	27.53
71.75- 72.75	17	61	5.92	21.25
70.75- 71.75	12	44	4.18	15.33
69.75- 70.75	9	32	3.14	11.15
68.75- 69.75	6	23	2.09	8.01
67.75- 68.75	7	17	2.44	5.92
66.75- 67.75	5	10	1.74	3.48
65.75- 66.75	3	5	1.05	1.74
64.75- 65.75	0	2	0.00	.70
63.75- 64.75	1	2	.35	.70
62.75- 63.75	1	1	.35	.35

30C HIP CIRCUMFERENCE

RANGES	FRQ	CUMF	FRQ%	CUMF%
113.75-114.75	1	287	.35	100.00
112.75-113.75	2	286	.70	99.65
111.75-112.75	0	284	0.00	98.95
110.75-111.75	1	284	.35	98.95
109.75-110.75	1	283	.35	98.61
108.75-109.75	3	282	1.05	98.26
107.75-108.75	4	279	1.39	97.21
106.75-107.75	7	275	2.44	95.82
105.75-106.75	1	268	.35	93.38
104.75-105.75	6	267	2.09	93.03
103.75-104.75	5	261	1.74	90.94
102.75-103.75	3	256	1.05	89.20
101.75-102.75	4	253	1.39	88.15
100.75-101.75	12	249	4.18	86.76
99.75-100.75	11	237	3.83	82.58
98.75- 99.75	14	226	4.88	78.75
97.75- 98.75	13	212	4.53	73.87
96.75- 97.75	16	199	5.57	69.34
95.75- 96.75	9	183	3.14	63.76
94.75- 95.75	17	174	5.92	60.63
93.75- 94.75	16	157	5.57	54.70
92.75- 93.75	21	141	7.32	49.13
91.75- 92.75	20	120	6.97	41.81
90.75- 91.75	25	100	8.71	34.84
89.75- 90.75	21	75	7.32	26.13
88.75- 89.75	18	54	6.27	18.82
87.75- 88.75	18	36	6.27	12.54
86.75- 87.75	9	18	3.14	6.27
85.75- 86.75	6	9	2.09	3.14
84.75- 85.75	2	3	.70	1.05
83.75- 84.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

23T BICEPS CIR,RELAXED

RANGES		FRQ	CUMF	FRQ%	CUMF%
37.75-	38.25	1	287	.35	100.00
37.25-	37.75	0	286	0.00	99.65
36.75-	37.25	0	286	0.00	99.65
36.25-	36.75	0	286	0.00	99.65
35.75-	36.25	2	286	.70	99.65
35.25-	35.75	2	284	.70	98.95
34.75-	35.25	2	282	.70	98.26
34.25-	34.75	3	280	1.05	97.56
33.75-	34.25	1	277	.35	96.52
33.25-	33.75	12	276	4.18	96.17
32.75-	33.25	10	264	3.48	91.99
32.25-	32.75	12	254	4.18	88.50
31.75-	32.25	10	242	3.48	84.32
31.25-	31.75	9	232	3.14	80.84
30.75-	31.25	19	223	6.62	77.70
30.25-	30.75	14	204	4.88	71.08
29.75-	30.25	20	190	6.97	66.20
29.25-	29.75	19	170	6.62	59.23
28.75-	29.25	19	151	6.62	52.61
28.25-	28.75	22	132	7.67	45.99
27.75-	28.25	13	110	4.53	38.33
27.25-	27.75	16	97	5.57	33.80
26.75-	27.25	23	81	8.01	28.22
26.25-	26.75	14	58	4.88	20.21
25.75-	26.25	14	44	4.88	15.33
25.25-	25.75	9	30	3.14	10.45
24.75-	25.25	11	21	3.83	7.32
24.25-	24.75	2	10	.70	3.48
23.75-	24.25	4	8	1.39	2.79
23.25-	23.75	2	4	.70	1.39
22.75-	23.25	1	2	.35	.70
22.25-	22.75	0	1	0.00	.35
21.75-	22.25	1	1	.35	.35

33C BICEPS CIRC,FLEXED

RANGES		FRQ	CUMF	FRQ%	CUMF%
38.75-	39.25	1	287	.35	100.00
38.25-	38.75	0	286	0.00	99.65
37.75-	38.25	2	286	.70	99.65
37.25-	37.75	1	284	.35	98.95
36.75-	37.25	2	283	.70	98.61
36.25-	36.75	3	281	1.05	97.91
35.75-	36.25	8	278	2.79	96.86
35.25-	35.75	12	270	4.18	94.08
34.75-	35.25	7	258	2.44	89.90
34.25-	34.75	10	251	3.48	87.46
33.75-	34.25	13	241	4.53	83.97
33.25-	33.75	13	228	4.53	79.44
32.75-	33.25	18	215	6.27	74.91
32.25-	32.75	15	197	5.23	68.64
31.75-	32.25	14	182	4.88	63.41
31.25-	31.75	26	168	9.06	58.54
30.75-	31.25	17	142	5.92	49.48
30.25-	30.75	19	125	6.62	43.55
29.75-	30.25	18	106	6.27	36.93
29.25-	29.75	27	88	9.41	30.66
28.75-	29.25	13	61	4.53	21.25
28.25-	28.75	12	48	4.18	16.72
27.75-	28.25	12	36	4.18	12.54
27.25-	27.75	5	24	1.74	8.36
26.75-	27.25	9	19	3.14	6.62
26.25-	26.75	3	10	1.05	3.48
25.75-	26.25	3	7	1.05	2.44
25.25-	25.75	2	4	.70	1.39
24.75-	25.25	1	2	.35	.70
24.25-	24.75	0	1	0.00	.35
23.75-	24.25	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

39C CALF CIRCUMFERENCE

RANGES	FRQ	CUMF	FRQ%	CUMF%
43.75- 44.25	1	287	.35	100.00
43.25- 43.75	1	286	.35	99.65
42.75- 43.25	1	285	.35	99.30
42.25- 42.75	1	284	.35	98.95
41.75- 42.25	4	283	1.39	98.61
41.25- 41.75	3	279	1.05	97.21
40.75- 41.25	4	276	1.39	96.17
40.25- 40.75	6	272	2.09	94.77
39.75- 40.25	8	266	2.79	92.68
39.25- 39.75	6	258	2.09	89.90
38.75- 39.25	9	252	3.14	87.80
38.25- 38.75	12	243	4.18	84.67
37.75- 38.25	7	231	2.44	80.49
37.25- 37.75	18	224	6.27	78.05
36.75- 37.25	21	206	7.32	71.78
36.25- 36.75	20	185	6.97	64.46
35.75- 36.25	13	165	4.53	57.49
35.25- 35.75	19	152	6.62	52.96
34.75- 35.25	25	133	8.71	46.34
34.25- 34.75	22	108	7.67	37.63
33.75- 34.25	25	86	8.71	29.97
33.25- 33.75	13	61	4.53	21.25
32.75- 33.25	9	48	3.14	16.72
32.25- 32.75	12	39	4.18	13.59
31.75- 32.25	11	27	3.83	9.41
31.25- 31.75	6	16	2.09	5.57
30.75- 31.25	2	10	.70	3.48
30.25- 30.75	3	8	1.05	2.79
29.75- 30.25	1	5	.35	1.74
29.25- 29.75	3	4	1.05	1.39
28.75- 29.25	0	1	0.00	.35
28.25- 28.75	1	1	.35	.35

40C ANKLE CIRCUMFERNCE

RANGES	FRQ	CUMF	FRQ%	CUMF%
26.95- 26.15	1	287	.35	100.00
25.75- 25.95	1	286	.35	99.65
25.55- 25.75	0	285	0.00	99.30
25.35- 25.55	1	285	.35	99.30
25.15- 25.35	0	284	0.00	98.95
24.95- 25.15	1	284	.35	98.95
24.75- 24.95	0	283	0.00	98.61
24.55- 24.75	1	283	.35	98.61
24.35- 24.55	2	282	.70	98.26
24.15- 24.35	2	280	.70	97.56
23.95- 24.15	9	278	3.14	96.86
23.75- 23.95	6	269	2.09	93.73
23.55- 23.75	1	263	.35	91.64
23.35- 23.55	10	262	3.48	91.29
23.15- 23.35	10	252	3.48	87.80
22.95- 23.15	15	242	5.23	84.32
22.75- 22.95	12	227	4.18	79.09
22.55- 22.75	12	215	4.18	74.91
22.35- 22.55	16	203	5.57	70.73
22.15- 22.35	11	187	3.83	65.16
21.95- 22.15	17	176	5.92	61.32
21.75- 21.95	5	159	1.74	55.40
21.55- 21.75	13	154	4.53	53.66
21.35- 21.55	24	141	8.36	49.13
21.15- 21.35	10	117	3.48	40.77
20.95- 21.15	19	107	6.62	37.28
20.75- 20.95	15	88	5.23	30.66
20.55- 20.75	6	73	2.09	25.44
20.35- 20.55	15	67	5.23	23.34
20.15- 20.35	10	52	3.48	18.12
19.95- 20.15	10	42	3.48	14.63
19.75- 19.95	13	32	4.53	11.15
19.55- 19.75	1	19	.35	6.62
19.35- 19.55	7	18	2.44	6.27
19.15- 19.35	1	11	.35	3.83
18.95- 19.15	3	10	1.05	3.48
18.75- 18.95	3	7	1.05	2.44
18.55- 18.75	2	4	.70	1.39
18.35- 18.55	1	2	.35	.70
18.15- 18.35	0	1	0.00	.35
17.95- 18.15	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

42C INTERSCYE, BACK

RANGES		FRQ	CUMF	FRQ%	CUMF%
47.75-	48.25	1	287	.35	100.00
47.25-	47.75	5	286	1.74	99.65
46.75-	47.25	3	281	1.05	97.91
46.25-	46.75	3	278	1.05	96.86
45.75-	46.25	1	275	.35	95.82
45.25-	45.75	5	274	1.74	95.47
44.75-	45.25	8	269	2.79	93.73
44.25-	44.75	11	261	3.83	90.94
43.75-	44.25	13	250	4.53	87.11
43.25-	43.75	14	237	4.88	82.58
42.75-	43.25	17	223	5.92	77.70
42.25-	42.75	13	206	4.53	71.78
41.75-	42.25	15	193	5.23	67.25
41.25-	41.75	27	178	9.41	62.02
40.75-	41.25	15	151	5.23	52.61
40.25-	40.75	20	136	6.97	47.39
39.75-	40.25	21	116	7.32	40.42
39.25-	39.75	20	95	6.97	33.10
38.75-	39.25	16	75	5.57	26.13
38.25-	38.75	12	59	4.18	20.56
37.75-	38.25	12	47	4.16	16.38
37.25-	37.75	9	35	3.14	12.20
36.75-	37.25	6	26	2.09	9.06
36.25-	36.75	8	20	2.79	6.97
35.75-	36.25	3	12	1.05	4.18
35.25-	35.75	5	9	1.74	3.14
34.75-	35.25	0	4	0.00	1.39
34.25-	34.75	2	4	.70	1.39
33.75-	34.25	0	2	0.00	.70
33.25-	33.75	1	2	.35	.70
32.75-	33.25	1	1	.35	.35

43C INTERSCYE, FRONT

RANGES		FRQ	CUMF	FRQ%	CUMF%
41.15-	41.35	3	287	1.05	100.00
40.95-	41.15	5	284	1.74	98.95
40.75-	40.95	0	279	0.00	97.21
40.55-	40.75	4	279	1.39	97.21
40.35-	40.55	0	275	0.00	95.82
40.15-	40.35	2	275	.70	95.82
39.95-	40.15	2	273	.70	95.12
39.75-	39.95	2	271	.70	94.43
39.55-	39.75	5	269	1.74	93.73
39.35-	39.55	2	264	.70	91.99
39.15-	39.35	4	262	1.39	91.29
38.95-	39.15	7	258	2.44	89.90
38.75-	38.95	4	251	1.39	87.46
38.55-	38.75	7	247	2.44	86.06
38.35-	38.55	11	240	3.83	83.62
38.15-	38.35	8	229	2.79	79.79
37.95-	38.15	6	221	2.09	77.00
37.75-	37.95	12	215	4.18	74.91
37.55-	37.75	11	203	3.83	70.73
37.35-	37.55	17	192	5.92	66.90
37.15-	37.35	2	175	.70	60.98
36.95-	37.15	11	173	3.83	60.28
36.75-	36.95	7	162	2.44	56.45
36.55-	36.75	10	155	3.48	54.01
36.35-	36.55	15	145	5.23	50.52
36.15-	36.35	15	130	5.23	45.30
35.95-	36.15	10	115	3.48	40.07
35.75-	35.95	9	105	3.14	36.59
35.55-	35.75	12	96	4.18	33.45
35.35-	35.55	10	84	3.48	29.27
35.15-	35.35	12	74	4.18	25.78
34.95-	35.15	6	62	2.09	21.60
34.75-	34.95	8	56	2.79	19.51
34.55-	34.75	8	48	2.79	16.72
34.35-	34.55	7	40	2.44	13.94
34.15-	34.35	8	33	2.79	11.50
33.95-	34.15	3	25	1.05	8.71
33.75-	33.95	4	22	1.39	7.67
33.55-	33.75	1	18	.35	6.27
33.35-	33.55	2	17	.70	5.92
33.15-	33.35	3	15	1.05	5.23
32.95-	33.15	4	12	1.39	4.18
32.75-	32.95	3	8	1.05	2.79
32.55-	32.75	1	5	.35	1.74
32.35-	32.55	2	4	.70	1.39
32.15-	32.35	0	2	0.00	.70
31.95-	32.15	1	2	.35	.70
31.75-	31.95	0	1	0.00	.35
31.55-	31.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

44C BACK CURV'URE-CHST

RANGES	FRQ	CUMF	FRQ%	CUMF%
54.25- 54.75	2	287	.70	100.00
53.75- 54.25	2	285	.70	99.30
53.25- 53.75	1	283	.35	98.61
52.75- 53.25	1	282	.35	98.26
52.25- 52.75	3	281	1.05	97.91
51.75- 52.25	4	278	1.39	96.86
51.25- 51.75	4	274	1.39	95.47
50.75- 51.25	6	270	2.09	94.08
50.25- 50.75	4	264	1.39	91.99
49.75- 50.25	3	260	1.05	90.59
49.25- 49.75	8	257	2.79	89.55
48.75- 49.25	11	249	3.83	86.76
48.25- 48.75	6	238	2.09	82.93
47.75- 48.25	11	232	3.83	80.84
47.25- 47.75	8	221	2.79	77.00
46.75- 47.25	11	213	3.83	74.22
46.25- 46.75	9	202	3.14	70.38
45.75- 46.25	14	193	4.88	67.25
45.25- 45.75	17	179	5.92	62.37
44.75- 45.25	13	162	4.53	56.45
44.25- 44.75	17	149	5.92	51.92
43.75- 44.25	22	132	7.67	45.99
43.25- 43.75	8	110	2.79	38.33
42.75- 43.25	24	102	8.36	35.54
42.25- 42.75	22	78	7.67	27.18
41.75- 42.25	20	56	6.97	19.51
41.25- 41.75	8	36	2.79	12.54
40.75- 41.25	11	28	3.83	9.76
40.25- 40.75	4	17	1.39	5.92
39.75- 40.25	8	13	2.79	4.53
39.25- 39.75	3	5	1.05	1.74
38.75- 39.25	0	2	0.00	.70
38.25- 38.75	1	2	.35	.70
37.75- 38.25	1	1	.35	.35

45C BACK CURV'KE-WAIST

RANGES	FRQ	CUMF	FRQ%	CUMF%
56.75- 57.75	1	287	.35	100.00
55.75- 56.75	1	286	.35	99.65
54.75- 55.75	0	285	0.00	99.30
53.75- 54.75	1	285	.35	99.30
52.75- 53.75	1	284	.35	98.95
51.75- 52.75	0	283	0.00	98.61
50.75- 51.75	0	283	0.00	98.61
49.75- 50.75	0	283	0.00	98.61
48.75- 49.75	4	283	1.39	98.61
47.75- 48.75	3	279	1.05	97.21
46.75- 47.75	6	276	2.09	96.17
45.75- 46.75	6	270	2.09	94.08
44.75- 45.75	6	264	2.09	91.99
43.75- 44.75	10	258	3.48	89.90
42.75- 43.75	13	248	4.53	86.41
41.75- 42.75	11	235	3.83	81.88
40.75- 41.75	16	224	5.57	78.05
39.75- 40.75	18	208	6.27	72.47
38.75- 39.75	20	190	6.97	66.20
37.75- 38.75	30	170	10.45	59.23
36.75- 37.75	43	140	14.98	48.78
35.75- 36.75	42	97	14.63	33.80
34.75- 35.75	21	55	7.32	19.16
33.75- 34.75	20	34	6.97	11.85
32.75- 33.75	5	14	1.74	4.88
31.75- 32.75	7	9	2.44	3.14
30.75- 31.75	2	2	.70	.70

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

46C BACK CURVATURE-HIP

RANGES	FRQ	CUMF	FRQ%	CUMF%
58.25- 58.75	1	287	.35	100.00
57.75- 58.25	0	286	0.00	99.65
57.25- 57.75	0	286	0.00	99.65
56.75- 57.25	0	286	0.00	99.65
56.25- 56.75	0	286	0.00	99.65
55.75- 56.25	0	286	0.00	99.65
55.25- 55.75	1	286	.35	99.65
54.75- 55.25	2	285	.70	99.30
54.25- 54.75	0	283	0.00	98.61
53.75- 54.25	2	283	.70	98.61
53.25- 53.75	5	281	1.74	97.91
52.75- 53.25	2	276	.70	96.17
52.25- 52.75	2	274	.70	95.47
51.75- 52.25	4	272	1.39	94.77
51.25- 51.75	6	268	2.09	93.38
50.75- 51.25	6	262	2.09	91.29
50.25- 50.75	7	256	2.44	89.20
49.75- 50.25	8	249	2.79	86.76
49.25- 49.75	11	241	3.83	83.97
48.75- 49.25	13	230	4.53	80.14
48.25- 48.75	12	217	4.18	75.61
47.75- 48.25	10	205	3.48	71.43
47.25- 47.75	10	195	3.48	67.94
46.75- 47.25	17	185	5.92	64.46
46.25- 46.75	16	168	5.57	58.54
45.75- 46.25	14	152	4.88	52.96
45.25- 45.75	16	138	5.57	48.08
44.75- 45.25	24	122	8.36	42.51
44.25- 44.75	28	98	9.76	34.15
43.75- 44.25	20	70	6.97	24.39
43.25- 43.75	18	50	6.27	17.42
42.75- 43.25	11	32	3.83	11.15
42.25- 42.75	10	21	3.48	7.32
41.75- 42.25	4	11	1.39	3.83
41.25- 41.75	5	7	1.74	2.44
40.75- 41.25	1	2	.35	.70
40.25- 40.75	0	1	0.00	.35
39.75- 40.25	0	1	0.00	.35
39.25- 39.75	1	1	.35	.35

47C WAIST BACK LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
52.75- 53.25	2	287	.70	100.00
52.25- 52.75	0	285	0.00	99.30
51.75- 52.25	4	285	1.39	99.30
51.25- 51.75	2	281	.70	97.91
50.75- 51.25	4	279	1.39	97.21
50.25- 50.75	5	275	1.74	95.82
49.75- 50.25	7	270	2.44	94.08
49.25- 49.75	3	263	1.05	91.64
48.75- 49.25	7	260	2.44	90.59
48.25- 48.75	7	253	2.44	88.15
47.75- 48.25	13	246	4.53	85.71
47.25- 47.75	15	233	5.23	81.18
46.75- 47.25	11	218	3.83	75.96
46.25- 46.75	17	207	5.92	72.13
45.75- 46.25	11	190	3.83	66.20
45.25- 45.75	22	179	7.67	62.37
44.75- 45.25	20	157	6.97	54.70
44.25- 44.75	14	137	4.88	47.74
43.75- 44.25	14	123	4.88	42.86
43.25- 43.75	19	109	6.62	37.98
42.75- 43.25	19	90	6.62	31.36
42.25- 42.75	16	71	5.57	24.74
41.75- 42.25	11	55	3.83	19.16
41.25- 41.75	4	44	1.39	15.33
40.75- 41.25	9	40	3.14	13.94
40.25- 40.75	6	31	2.09	10.80
39.75- 40.25	6	25	2.09	8.71
39.25- 39.75	7	19	2.44	6.62
38.75- 39.25	4	12	1.39	4.18
38.25- 38.75	3	8	1.05	2.79
37.75- 38.25	4	5	1.39	1.74
37.25- 37.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

48C WAIST FRONT LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
48.75- 49.25	1	287	.35	100.00
48.25- 48.75	0	286	0.00	99.65
47.75- 48.25	3	286	1.05	99.65
47.25- 47.75	2	283	.70	98.61
46.75- 47.25	6	281	2.09	97.91
46.25- 46.75	3	275	1.05	95.82
45.75- 46.25	4	272	1.39	94.77
45.25- 45.75	9	268	3.14	93.38
44.75- 45.25	4	259	1.39	90.24
44.25- 44.75	10	255	3.48	88.85
43.75- 44.25	13	245	4.53	85.37
43.25- 43.75	11	232	3.83	80.84
42.75- 43.25	15	221	5.23	77.00
42.25- 42.75	12	206	4.18	71.78
41.75- 42.25	20	194	6.97	67.60
41.25- 41.75	16	174	5.57	60.63
40.75- 41.25	25	158	8.71	55.05
40.25- 40.75	19	133	6.62	46.34
39.75- 40.25	19	114	6.62	39.72
39.25- 39.75	15	95	5.23	33.10
38.75- 39.25	12	80	4.18	27.87
38.25- 38.75	22	68	7.67	23.69
37.75- 38.25	9	46	3.14	16.03
37.25- 37.75	10	37	3.48	12.89
36.75- 37.25	4	27	1.39	9.41
36.25- 36.75	5	23	1.74	8.01
35.75- 36.25	5	18	1.74	6.27
35.25- 35.75	2	13	.70	4.53
34.75- 35.25	5	11	1.74	3.83
34.25- 34.75	4	6	1.39	2.09
33.75- 34.25	0	2	0.00	.70
33.25- 33.75	0	2	0.00	.70
32.75- 33.25	0	2	0.00	.70
32.25- 32.75	2	2	.70	.70

51C SLEEVE INSEAM LGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
56.25- 56.75	1	287	.35	100.00
55.75- 56.25	0	286	0.00	99.65
55.25- 55.75	0	286	0.00	99.65
54.75- 55.25	2	286	.70	99.65
54.25- 54.75	2	284	.70	98.95
53.75- 54.25	2	282	.70	98.26
53.25- 53.75	5	280	1.74	97.56
52.75- 53.25	4	275	1.39	95.82
52.25- 52.75	4	271	1.39	94.43
51.75- 52.25	12	267	4.18	93.03
51.25- 51.75	4	255	1.39	88.85
50.75- 51.25	16	251	5.57	87.46
50.25- 50.75	16	235	5.57	81.88
49.75- 50.25	10	219	3.48	76.31
49.25- 49.75	19	209	6.62	72.82
48.75- 49.25	22	190	7.67	66.20
48.25- 48.75	25	168	8.71	58.54
47.75- 48.25	18	143	6.27	49.83
47.25- 47.75	22	125	7.67	43.55
46.75- 47.25	19	103	6.62	35.89
46.25- 46.75	18	84	6.27	29.27
45.75- 46.25	16	66	5.57	23.00
45.25- 45.75	15	50	5.23	17.42
44.75- 45.25	12	35	4.18	12.20
44.25- 44.75	6	23	2.09	8.01
43.75- 44.25	4	17	1.39	5.92
43.25- 43.75	3	13	1.05	4.53
42.75- 43.25	4	10	1.39	3.48
42.25- 42.75	3	6	1.05	2.09
41.75- 42.25	0	3	0.00	1.05
41.25- 41.75	1	3	.35	1.05
40.75- 41.25	0	2	0.00	.70
40.25- 40.75	0	2	0.00	.70
39.75- 40.25	1	2	.35	.70
39.25- 39.75	0	1	0.00	.35
38.75- 39.25	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

52C SLEEVE OUTSEAM LTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
66.75- 67.25	1	287	.35	100.00
66.25- 66.75	1	286	.35	99.65
65.75- 66.25	5	285	1.74	99.30
65.25- 65.75	2	280	.70	97.56
64.75- 65.25	3	278	1.05	96.86
64.25- 64.75	3	275	1.05	95.82
63.75- 64.25	4	272	1.39	94.77
63.25- 63.75	5	268	1.74	93.38
62.75- 63.25	11	263	3.83	91.64
62.25- 62.75	8	252	2.79	87.80
61.75- 62.25	8	244	2.79	85.02
61.25- 61.75	11	236	3.83	82.23
60.75- 61.25	20	225	6.97	78.40
60.25- 60.75	13	205	4.53	71.43
59.75- 60.25	12	192	4.18	66.90
59.25- 59.75	15	180	5.23	62.72
58.75- 59.25	13	165	4.53	57.49
58.25- 58.75	15	152	5.23	52.96
57.75- 58.25	20	137	6.97	47.74
57.25- 57.75	19	117	6.62	40.77
56.75- 57.25	21	98	7.32	34.15
56.25- 56.75	15	77	5.23	26.83
55.75- 56.25	19	62	6.62	21.60
55.25- 55.75	7	43	2.44	14.98
54.75- 55.25	14	36	4.88	12.54
54.25- 54.75	4	22	1.39	7.67
53.75- 54.25	4	18	1.39	6.27
53.25- 53.75	3	14	1.05	4.88
52.75- 53.25	0	11	0.00	3.83
52.25- 52.75	6	11	2.09	3.83
51.75- 52.25	1	5	.35	1.74
51.25- 51.75	1	4	.35	1.39
50.75- 51.25	1	3	.35	1.05
50.25- 50.75	1	2	.35	.70
49.75- 50.25	0	1	0.00	.35
49.25- 49.75	0	1	0.00	.35
48.75- 49.25	0	1	0.00	.35
48.25- 48.75	0	1	0.00	.35
47.75- 48.25	0	1	0.00	.35
47.25- 47.75	1	1	.35	.35

54C HEAD CIRCUMFERENCE

RANGES	FRQ	CUMF	FRQ%	CUMF%
60.15- 60.35	1	287	.35	100.00
59.95- 60.15	1	286	.35	99.65
59.75- 59.95	0	285	0.00	99.30
59.55- 59.75	2	285	.70	99.30
59.35- 59.55	1	283	.35	98.61
59.15- 59.35	1	282	.35	98.26
58.95- 59.15	3	281	1.05	97.91
58.75- 58.95	5	278	1.74	96.86
58.55- 58.75	4	273	1.39	95.12
58.35- 58.55	5	269	1.74	93.73
58.15- 58.35	5	264	1.74	91.99
57.95- 58.15	5	259	1.74	90.24
57.75- 57.95	5	254	1.74	88.50
57.55- 57.75	7	249	2.44	86.76
57.35- 57.55	11	242	3.83	84.32
57.15- 57.35	11	231	3.83	80.49
56.95- 57.15	14	220	4.88	76.66
56.75- 56.95	11	206	3.83	71.78
56.55- 56.75	10	195	3.48	67.94
56.35- 56.55	19	185	6.62	64.46
56.15- 56.35	14	166	4.88	57.84
55.95- 56.15	16	152	5.57	52.96
55.75- 55.95	9	136	3.14	47.39
55.55- 55.75	17	127	5.92	44.25
55.35- 55.55	20	110	6.97	38.33
55.15- 55.35	12	90	4.18	31.36
54.95- 55.15	10	78	3.48	27.18
54.75- 54.95	7	68	2.44	23.69
54.55- 54.75	11	61	3.83	21.25
54.35- 54.55	8	50	2.79	17.42
54.15- 54.35	7	42	2.44	14.63
53.95- 54.15	9	35	3.14	12.20
53.75- 53.95	1	26	.35	9.06
53.55- 53.75	0	25	0.00	8.71
53.35- 53.55	5	25	1.74	8.71
53.15- 53.35	6	20	2.09	6.97
52.95- 53.15	3	14	1.05	4.88
52.75- 52.95	0	11	0.00	3.83
52.55- 52.75	2	11	.70	3.83
52.35- 52.55	3	9	1.05	3.14
52.15- 52.35	2	6	.70	2.09
51.95- 52.15	1	4	.35	1.39
51.75- 51.95	2	3	.70	1.05
51.55- 51.75	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

55C HEAD BREADTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
16.65- 16.75	1	287	.35	100.00
16.55- 16.65	0	286	0.00	99.65
16.45- 16.55	3	286	1.05	99.65
16.35- 16.45	2	283	.70	98.61
16.25- 16.35	0	281	0.00	97.91
16.15- 16.25	2	281	.70	97.91
16.05- 16.15	1	279	.35	97.21
15.95- 16.05	4	278	1.39	96.86
15.85- 15.95	3	274	1.05	95.47
15.75- 15.85	8	271	2.79	94.43
15.65- 15.75	12	263	4.18	91.64
15.55- 15.65	21	251	7.32	87.46
15.45- 15.55	13	230	4.53	80.14
15.35- 15.45	11	217	3.83	75.61
15.25- 15.35	13	206	4.53	71.78
15.15- 15.25	22	193	7.67	67.25
15.05- 15.15	31	171	10.80	59.58
14.95- 15.05	23	140	8.01	48.78
14.85- 14.95	16	117	5.57	40.77
14.75- 14.85	16	101	5.57	35.19
14.65- 14.75	23	85	8.01	29.62
14.55- 14.65	12	62	4.18	21.60
14.45- 14.55	13	50	4.53	17.42
14.35- 14.45	9	37	3.14	12.89
14.25- 14.35	6	28	2.09	9.76
14.15- 14.25	7	22	2.44	7.67
14.05- 14.15	9	15	3.14	5.23
13.95- 14.05	2	6	.70	2.09
13.85- 13.95	2	4	.70	1.39
13.75- 13.85	1	2	.35	.70
13.65- 13.75	1	1	.35	.35

56C HEAD LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
21.35- 21.45	1	287	.35	100.00
21.25- 21.35	2	286	.70	99.65
21.15- 21.25	0	284	0.00	98.95
21.05- 21.15	0	284	0.00	98.95
20.95- 21.05	2	284	.70	98.95
20.85- 20.95	1	282	.35	98.26
20.75- 20.85	4	281	1.39	97.91
20.65- 20.75	3	277	1.05	96.52
20.55- 20.65	4	274	1.39	95.47
20.45- 20.55	11	270	3.83	94.08
20.35- 20.45	7	259	2.44	90.24
20.25- 20.35	4	252	1.39	87.80
20.15- 20.25	9	248	3.14	86.41
20.05- 20.15	9	239	3.14	83.28
19.95- 20.05	8	230	2.79	80.14
19.85- 19.95	11	222	3.83	77.35
19.75- 19.85	13	211	4.53	73.52
19.65- 19.75	13	198	4.53	68.99
19.55- 19.65	16	185	5.57	64.46
19.45- 19.55	30	169	10.45	58.89
19.35- 19.45	16	139	5.57	48.43
19.25- 19.35	18	123	6.27	42.86
19.15- 19.25	23	105	8.01	36.59
19.05- 19.15	14	82	4.88	28.57
18.95- 19.05	13	68	4.53	23.69
18.85- 18.95	8	55	2.79	19.16
18.75- 18.85	9	47	3.14	16.38
18.65- 18.75	7	38	2.44	13.24
18.55- 18.65	7	31	2.44	10.80
18.45- 18.55	4	24	1.39	8.36
18.35- 18.45	1	20	.35	6.97
18.25- 18.35	7	19	2.44	6.62
18.15- 18.25	0	12	0.00	4.18
18.05- 18.15	4	12	1.39	4.18
17.95- 18.05	2	8	.70	2.79
17.85- 17.95	1	6	.35	2.09
17.75- 17.85	2	5	.70	1.74
17.65- 17.75	0	3	0.00	1.05
17.55- 17.65	1	3	.35	1.05
17.45- 17.55	1	2	.35	.70
17.35- 17.45	0	1	0.00	.35
17.25- 17.35	0	1	0.00	.35
17.15- 17.25	0	1	0.00	.35
17.05- 17.15	0	1	0.00	.35
16.95- 17.05	0	1	0.00	.35
16.85- 16.95	0	1	0.00	.35
16.75- 16.85	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

57C PALM LENGTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
12.05-	12.15	2	287	.70	100.00
11.95-	12.05	3	285	1.05	99.30
11.85-	11.95	4	282	1.39	98.26
11.75-	11.85	7	278	2.44	96.86
11.65-	11.75	4	271	1.39	94.43
11.55-	11.65	5	267	1.74	93.03
11.45-	11.55	6	262	2.09	91.29
11.35-	11.45	7	256	2.44	89.20
11.25-	11.35	14	249	4.88	86.76
11.15-	11.25	12	235	4.18	81.88
11.05-	11.15	31	223	10.80	77.70
10.95-	11.05	16	192	5.57	66.90
10.85-	10.95	16	176	5.57	61.32
10.75-	10.85	21	160	7.32	55.75
10.65-	10.75	18	139	6.27	48.43
10.55-	10.65	17	121	5.92	42.16
10.45-	10.55	19	104	6.62	36.24
10.35-	10.45	13	85	4.53	29.62
10.25-	10.35	13	72	4.53	25.09
10.15-	10.25	13	59	4.53	20.56
10.05-	10.15	13	46	4.53	16.03
9.95-	10.05	5	33	1.74	11.50
9.85-	9.95	12	28	4.18	9.76
9.75-	9.85	6	16	2.09	5.57
9.65-	9.75	3	10	1.05	3.48
9.55-	9.65	2	7	.70	2.44
9.45-	9.55	1	5	.35	1.74
9.35-	9.45	1	4	.35	1.39
9.25-	9.35	1	3	.35	1.05
9.15-	9.25	0	2	0.00	.70
9.05-	9.15	1	2	.35	.70
8.95-	9.05	1	1	.35	.35

58C HAND BREADTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
9.95-	10.05	1	287	.35	100.00
9.85-	9.95	1	286	.35	99.65
9.75-	9.85	7	285	2.44	99.30
9.65-	9.75	7	278	2.44	96.86
9.55-	9.65	7	271	2.44	94.43
9.45-	9.55	13	264	4.53	91.99
9.35-	9.45	11	251	3.83	87.46
9.25-	9.35	19	240	6.62	83.62
9.15-	9.25	19	221	6.62	77.00
9.05-	9.15	26	202	9.06	70.38
8.95-	9.05	23	176	8.01	61.32
8.85-	8.95	29	153	10.10	53.31
8.75-	8.85	18	124	6.27	43.21
8.65-	8.75	25	106	8.71	36.93
8.55-	8.65	27	81	9.41	28.22
8.45-	8.55	16	54	5.57	18.82
8.35-	8.45	11	38	3.83	13.24
8.25-	8.35	11	27	3.83	9.41
8.15-	8.25	10	16	3.48	5.57
8.05-	8.15	1	6	.35	2.09
7.95-	8.05	1	5	.35	1.74
7.85-	7.95	2	4	.70	1.39
7.75-	7.85	2	2	.70	.70

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

59C HAND CIRCUMFERENCE

RANGES	FRQ	CUMF	FRQ%	CUMF%
23.95- 24.15	1	287	.35	100.00
23.75- 23.95	1	286	.35	99.65
23.55- 23.75	1	285	.35	99.30
23.35- 23.55	1	284	.35	98.95
23.15- 23.35	2	283	.70	98.61
22.95- 23.15	5	281	1.74	97.91
22.75- 22.95	6	276	2.09	96.17
22.55- 22.75	6	270	2.09	94.08
22.35- 22.55	8	264	2.79	91.99
22.15- 22.35	8	256	2.79	89.20
21.95- 22.15	20	248	6.97	86.41
21.75- 21.95	16	228	5.57	79.44
21.55- 21.75	16	212	5.57	73.87
21.35- 21.55	29	196	10.10	68.29
21.15- 21.35	15	167	5.23	58.19
20.95- 21.15	29	152	10.10	52.96
20.75- 20.95	18	123	6.27	42.86
20.55- 20.75	17	105	5.92	36.59
20.35- 20.55	23	88	8.01	30.66
20.15- 20.35	11	65	3.83	22.65
19.95- 20.15	24	54	8.36	18.82
19.75- 19.95	7	30	2.44	10.45
19.55- 19.75	10	23	3.48	8.01
19.35- 19.55	6	13	2.09	4.53
19.15- 19.35	1	7	.35	2.44
18.95- 19.15	2	6	.70	2.09
18.75- 18.95	1	4	.35	1.39
18.55- 18.75	1	3	.35	1.05
18.35- 18.55	1	2	.35	.70
18.15- 18.35	0	1	0.00	.35
17.95- 18.15	1	1	.35	.35

60C HAND LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
21.55- 21.75	1	287	.35	100.00
21.35- 21.55	0	286	0.00	99.65
21.15- 21.35	1	286	.35	99.65
20.95- 21.15	2	285	.70	99.30
20.75- 20.95	4	283	1.39	98.61
20.55- 20.75	10	279	3.48	97.21
20.35- 20.55	7	269	2.44	93.73
20.15- 20.35	11	262	3.83	91.29
19.95- 20.15	15	251	5.23	87.46
19.75- 19.95	12	236	4.18	82.23
19.55- 19.75	22	224	7.67	78.05
19.35- 19.55	24	202	8.36	70.38
19.15- 19.35	29	178	10.10	62.02
18.95- 19.15	18	149	6.27	51.92
18.75- 18.95	17	131	5.92	45.64
18.55- 18.75	24	114	8.36	39.72
18.35- 18.55	11	90	3.83	31.36
18.15- 18.35	13	79	4.53	27.53
17.95- 18.15	21	66	7.32	23.00
17.75- 17.95	15	45	5.23	15.68
17.55- 17.75	8	30	2.79	10.45
17.35- 17.55	12	22	4.18	7.67
17.15- 17.35	4	10	1.39	3.48
16.95- 17.15	2	6	.70	2.09
16.75- 16.95	0	4	0.00	1.39
16.55- 16.75	1	4	.35	1.39
16.35- 16.55	1	3	.35	1.05
16.15- 16.35	1	2	.35	.70
15.95- 16.15	0	1	0.00	.35
15.75- 15.95	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

61C INSTEP LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
22.95- 23.15	1	286	.35	100.00
22.75- 22.95	0	285	0.00	99.65
22.55- 22.75	1	285	.35	99.65
22.35- 22.55	1	284	.35	99.30
22.15- 22.35	4	283	1.40	98.95
21.95- 22.15	2	279	.70	97.55
21.75- 21.95	3	277	1.05	96.85
21.55- 21.75	5	274	1.75	95.80
21.35- 21.55	8	269	2.80	94.06
21.15- 21.35	10	261	3.50	91.26
20.95- 21.15	11	251	3.85	87.76
20.75- 20.95	8	240	2.80	83.92
20.55- 20.75	5	232	1.75	81.12
20.35- 20.55	21	227	7.34	79.37
20.15- 20.35	20	206	6.99	72.03
19.95- 20.15	19	186	6.64	65.03
19.75- 19.95	23	167	8.04	58.39
19.55- 19.75	14	144	4.90	50.35
19.35- 19.55	23	130	8.04	45.45
19.15- 19.35	17	107	5.94	37.41
18.95- 19.15	19	90	6.64	31.47
18.75- 18.95	10	71	3.50	24.83
18.55- 18.75	15	61	5.24	21.33
18.35- 18.55	12	46	4.20	16.08
18.15- 18.35	6	34	2.10	11.89
17.95- 18.15	6	28	2.10	9.79
17.75- 17.95	3	22	1.05	7.69
17.55- 17.75	8	19	2.80	6.64
17.35- 17.55	3	11	1.05	3.85
17.15- 17.35	3	8	1.05	2.80
16.95- 17.15	3	5	1.05	1.75
16.75- 16.95	2	2	.70	.70

62C FOOT LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
29.55- 29.75	3	286	1.05	100.00
29.35- 29.55	4	283	1.40	98.95
29.15- 29.35	1	279	.35	97.55
28.95- 29.15	7	278	2.45	97.20
28.75- 28.95	8	271	2.80	94.76
28.55- 28.75	2	263	.70	91.96
28.35- 28.55	11	261	3.85	91.26
28.15- 28.35	8	250	2.80	87.41
27.95- 28.15	14	242	4.90	84.62
27.75- 27.95	11	228	3.85	79.72
27.55- 27.75	7	217	2.45	75.87
27.35- 27.55	18	210	6.29	73.43
27.15- 27.35	19	192	6.64	67.13
26.95- 27.15	23	173	8.04	60.49
26.75- 26.95	11	150	3.85	52.45
26.55- 26.75	10	139	3.50	48.60
26.35- 26.55	19	129	6.64	45.10
26.15- 26.35	14	110	4.90	38.46
25.95- 26.15	18	96	6.29	33.57
25.75- 25.95	16	78	5.59	27.27
25.55- 25.75	9	62	3.15	21.68
25.35- 25.55	13	53	4.55	18.53
25.15- 25.35	5	40	1.75	13.99
24.95- 25.15	11	35	3.85	12.24
24.75- 24.95	5	24	1.75	8.39
24.55- 24.75	2	19	.70	6.64
24.35- 24.55	6	17	2.10	5.94
24.15- 24.35	2	11	.70	3.85
23.95- 24.15	4	9	1.40	3.15
23.75- 23.95	0	5	0.00	1.75
23.55- 23.75	2	5	.70	1.75
23.35- 23.55	2	3	.70	1.05
23.15- 23.35	0	1	0.00	.35
22.95- 23.15	0	1	0.00	.35
22.75- 22.95	0	1	0.00	.35
22.55- 22.75	0	1	0.00	.35
22.35- 22.55	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

63C HEEL-ANKLE CIRCUMF

RANGES		FRQ	CUMF	FRQ%	CUMF%
38.95-	39.25	1	287	.35	100.00
38.65-	38.95	0	286	0.00	99.65
38.35-	38.65	1	286	.35	99.65
38.05-	38.35	0	285	0.00	99.30
37.75-	38.05	3	285	1.05	99.30
37.45-	37.75	4	282	1.39	98.26
37.15-	37.45	3	278	1.05	96.86
36.85-	37.15	9	275	3.14	95.82
36.55-	36.85	5	266	1.74	92.68
36.25-	36.55	6	261	2.09	90.94
35.95-	36.25	6	255	2.09	88.85
35.65-	35.95	13	249	4.53	86.76
35.35-	35.65	15	236	5.23	82.23
35.05-	35.35	7	221	2.44	77.00
34.75-	35.05	16	214	5.57	74.56
34.45-	34.75	18	198	6.27	68.99
34.15-	34.45	21	180	7.32	62.72
33.85-	34.15	23	159	8.01	55.40
33.55-	33.85	18	136	6.27	47.39
33.25-	33.55	24	118	8.36	41.11
32.95-	33.25	19	94	6.62	32.75
32.65-	32.95	16	75	5.57	26.13
32.35-	32.65	16	59	5.57	20.56
32.05-	32.35	13	43	4.53	14.98
31.75-	32.05	6	30	2.09	10.45
31.45-	31.75	4	24	1.39	8.36
31.15-	31.45	5	20	1.74	6.97
30.85-	31.15	6	15	2.09	5.23
30.55-	30.85	4	9	1.39	3.14
30.25-	30.55	0	5	0.00	1.74
29.95-	30.25	1	5	.35	1.74
29.65-	29.95	2	4	.70	1.39
29.35-	29.65	0	2	0.00	.70
29.05-	29.35	1	2	.35	.70
28.75-	29.05	0	1	0.00	.35
28.45-	28.75	1	1	.35	.35

64C FOOT BREADTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
11.45-	11.55	1	286	.35	100.00
11.35-	11.45	1	285	.35	99.65
11.25-	11.35	0	284	0.00	99.30
11.15-	11.25	1	284	.35	99.30
11.05-	11.15	1	283	.35	98.95
10.95-	11.05	6	282	2.10	98.60
10.85-	10.95	5	276	1.75	96.50
10.75-	10.85	2	271	.70	94.76
10.65-	10.75	13	269	4.55	94.06
10.55-	10.65	9	256	3.15	89.51
10.45-	10.55	14	247	4.90	86.36
10.35-	10.45	10	233	3.50	81.47
10.25-	10.35	16	223	5.59	77.97
10.15-	10.25	16	207	5.59	72.38
10.05-	10.15	15	191	5.24	66.78
9.95-	10.05	25	176	8.74	61.54
9.85-	9.95	16	151	5.59	52.80
9.75-	9.85	23	135	8.04	47.20
9.65-	9.75	22	112	7.69	39.16
9.55-	9.65	17	90	5.94	31.47
9.45-	9.55	22	73	7.69	25.52
9.35-	9.45	12	51	4.20	17.83
9.25-	9.35	11	39	3.85	13.64
9.15-	9.25	9	28	3.15	9.79
9.05-	9.15	3	19	1.05	6.64
8.95-	9.05	3	16	1.05	5.59
8.85-	8.95	4	13	1.40	4.55
8.75-	8.85	2	9	.70	3.15
8.65-	8.75	2	7	.70	2.45
8.55-	8.65	1	5	.35	1.75
8.45-	8.55	1	4	.35	1.40
8.35-	8.45	1	3	.35	1.05
8.25-	8.35	0	2	0.00	.70
8.15-	8.25	0	2	0.00	.70
8.05-	8.15	2	2	.70	.70

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

66C FOOT CIRCUMFERENCE

RANGES		FRQ	CUMF	FRQ%	CUMF%
28.35-	28.55	2	287	.70	100.00
28.15-	28.35	0	285	0.00	99.30
27.95-	28.15	3	285	1.05	99.30
27.75-	27.95	1	282	.35	98.26
27.55-	27.75	5	281	1.74	97.91
27.35-	27.55	6	276	2.09	96.17
27.15-	27.35	3	270	1.05	94.08
26.95-	27.15	8	267	2.79	93.03
26.75-	26.95	5	259	1.74	90.24
26.55-	26.75	10	254	3.48	88.50
26.35-	26.55	12	244	4.18	85.02
26.15-	26.35	7	232	2.44	80.84
25.95-	26.15	17	225	5.92	78.40
25.75-	25.95	15	208	5.23	72.47
25.55-	25.75	12	193	4.18	67.25
25.35-	25.55	10	181	3.48	63.07
25.15-	25.35	11	171	3.83	59.58
24.95-	25.15	32	160	11.15	55.75
24.75-	24.95	7	128	2.44	44.60
24.55-	24.75	16	121	5.57	42.16
24.35-	24.55	35	105	12.20	36.59
24.15-	24.35	14	70	4.88	24.39
23.95-	24.15	8	56	2.79	19.51
23.75-	23.95	13	48	4.53	16.72
23.55-	23.75	7	35	2.44	12.20
23.35-	23.55	9	28	3.14	9.76
23.15-	23.35	7	19	2.44	6.62
22.95-	23.15	3	12	1.05	4.18
22.75-	22.95	1	9	.35	3.14
22.55-	22.75	2	8	.70	2.79
22.35-	22.55	1	6	.35	2.09
22.15-	22.35	2	5	.70	1.74
21.95-	22.15	1	3	.35	1.05
21.75-	21.95	0	2	0.00	.70
21.55-	21.75	1	2	.35	.70
21.35-	21.55	1	1	.35	.35

69C SPHYRION HEIGHT

RANGES		FRQ	CUMF	FRQ%	CUMF%
9.35-	9.45	1	286	.35	100.00
9.25-	9.35	0	285	0.00	99.65
9.15-	9.25	0	285	0.00	99.65
9.05-	9.15	0	285	0.00	99.65
8.95-	9.05	0	285	0.00	99.65
8.85-	8.95	1	285	.35	99.65
8.75-	8.85	0	284	0.00	99.30
8.65-	8.75	2	284	.70	99.30
8.55-	8.65	4	282	1.40	98.60
8.45-	8.55	5	278	1.75	97.20
8.35-	8.45	0	273	0.00	95.45
8.25-	8.35	7	273	2.45	95.45
8.15-	8.25	10	266	3.50	93.01
8.05-	8.15	3	256	1.05	89.51
7.95-	8.05	27	253	9.44	88.46
7.85-	7.95	5	226	1.75	79.02
7.75-	7.85	14	221	4.90	77.27
7.65-	7.75	16	207	5.59	72.38
7.55-	7.65	15	191	5.24	66.78
7.45-	7.55	28	176	9.79	61.54
7.35-	7.45	23	148	8.04	51.75
7.25-	7.35	9	125	3.15	43.71
7.15-	7.25	5	116	1.75	40.56
7.05-	7.15	19	111	6.64	38.81
6.95-	7.05	28	92	9.79	32.17
6.85-	6.95	7	64	2.45	22.38
6.75-	6.85	15	57	5.24	19.93
6.65-	6.75	7	42	2.45	14.69
6.55-	6.65	8	35	2.80	12.24
6.45-	6.55	11	27	3.85	9.44
6.35-	6.45	5	16	1.75	5.59
6.25-	6.35	0	11	0.00	3.85
6.15-	6.25	3	11	1.05	3.85
6.05-	6.15	2	8	.70	2.80
5.95-	6.05	5	6	1.75	2.10
5.85-	5.95	0	1	0.00	.35
5.75-	5.85	0	1	0.00	.35
5.65-	5.75	0	1	0.00	.35
5.55-	5.65	0	1	0.00	.35
5.45-	5.55	1	1	.35	.35

FREQUENCY TABLES FOR CORE-SUBSERIES 1 MEASUREMENTS

29T WAIST HT/OMPHALION

RANGES	FRQ	CUMF	FRQ%	CUMF%
119.75-120.75	1	287	.35	100.00
118.75-119.75	0	286	0.00	99.65
117.75-118.75	1	286	.35	99.65
116.75-117.75	2	285	.70	99.30
115.75-116.75	4	283	1.39	98.61
114.75-115.75	2	279	.70	97.21
113.75-114.75	5	277	1.74	96.52
112.75-113.75	12	272	4.18	94.77
111.75-112.75	11	260	3.83	90.59
110.75-111.75	8	249	2.79	86.76
109.75-110.75	15	241	5.23	83.97
108.75-109.75	11	226	3.83	78.75
107.75-108.75	21	215	7.32	74.91
106.75-107.75	22	194	7.67	67.60
105.75-106.75	18	172	6.27	59.93
104.75-105.75	22	154	7.67	53.66
103.75-104.75	24	132	8.36	45.99
102.75-103.75	29	108	10.10	37.63
101.75-102.75	14	79	4.88	27.53
100.75-101.75	16	65	5.57	22.65
99.75-100.75	12	49	4.18	17.07
98.75- 99.75	8	37	2.79	12.89
97.75- 98.75	8	29	2.79	10.10
96.75- 97.75	4	21	1.39	7.32
95.75- 96.75	7	17	2.44	5.92
94.75- 95.75	1	10	.35	3.48
93.75- 94.75	5	9	1.74	3.14
92.75- 93.75	1	4	.35	1.39
91.75- 92.75	0	3	0.00	1.05
90.75- 91.75	1	3	.35	1.05
89.75- 90.75	1	2	.35	.70
88.75- 89.75	1	1	.35	.35

30T MIDSHOULDER HT/SIT

RANGES	FRQ	CUMF	FRQ%	CUMF%
68.75- 69.25	2	287	.70	100.00
68.25- 68.75	4	285	1.39	99.30
67.75- 68.25	2	281	.70	97.91
67.25- 67.75	1	279	.35	97.21
66.75- 67.25	3	278	1.05	96.86
66.25- 66.75	3	275	1.05	95.82
65.75- 66.25	7	272	2.44	94.77
65.25- 65.75	9	265	3.14	92.33
64.75- 65.25	7	256	2.44	89.20
64.25- 64.75	11	249	3.83	86.76
63.75- 64.25	11	238	3.83	82.93
63.25- 63.75	14	227	4.88	79.09
62.75- 63.25	11	213	3.83	74.22
62.25- 62.75	22	202	7.67	70.38
61.75- 62.25	23	180	8.01	62.72
61.25- 61.75	23	157	8.01	54.70
60.75- 61.25	20	134	6.97	46.69
60.25- 60.75	11	114	3.83	39.72
59.75- 60.25	16	103	5.57	35.89
59.25- 59.75	17	87	5.92	30.31
58.75- 59.25	13	70	4.53	24.39
58.25- 58.75	10	57	3.48	19.86
57.75- 58.25	16	47	5.57	16.38
57.25- 57.75	8	31	2.79	10.80
56.75- 57.25	8	23	2.79	8.01
56.25- 56.75	5	15	1.74	5.23
55.75- 56.25	3	10	1.05	3.48
55.25- 55.75	2	7	.70	2.44
54.75- 55.25	1	5	.35	1.74
54.25- 54.75	1	4	.35	1.39
53.75- 54.25	1	3	.35	1.05
53.25- 53.75	1	2	.35	.70
52.75- 53.25	1	1	.35	.35

B-2. FREQUENCY TABLES FOR THE WORKSPACE SUBSERIES

1W OVERHEAD REACH HGT

RANGES	FRQ	CUMF	FRQ%	CUMF%
238.25-239.75	1	106	.94	100.00
236.75-238.25	0	105	0.00	99.06
235.25-236.75	0	105	0.00	99.06
233.75-235.25	1	105	.94	99.06
232.25-233.75	1	104	.94	98.11
230.75-232.25	1	103	.94	97.17
229.25-230.75	5	102	4.72	96.23
227.75-229.25	3	97	2.83	91.51
226.25-227.75	3	94	2.83	88.68
224.75-226.25	5	91	4.72	85.85
223.25-224.75	2	86	1.89	81.13
221.75-223.25	1	84	.94	79.25
220.25-221.75	4	83	3.77	78.30
218.75-220.25	7	79	6.60	74.53
217.25-218.75	7	72	6.60	67.92
215.75-217.25	8	65	7.55	61.32
214.25-215.75	10	57	9.43	53.77
212.75-214.25	5	47	4.72	44.34
211.25-212.75	5	42	4.72	39.62
209.75-211.25	8	37	7.55	34.91
208.25-209.75	8	29	7.55	27.36
206.75-208.25	3	21	2.83	19.81
205.25-206.75	3	18	2.83	16.98
203.75-205.25	5	15	4.72	14.15
202.25-203.75	2	10	1.89	9.43
200.75-202.25	0	8	0.00	7.55
199.25-200.75	3	8	2.83	7.55
197.75-199.25	2	5	1.89	4.72
196.25-197.75	1	3	.94	2.83
194.75-196.25	1	2	.94	1.89
193.25-194.75	0	1	0.00	.94
191.75-193.25	0	1	0.00	.94
190.25-191.75	0	1	0.00	.94
188.75-190.25	0	1	0.00	.94
187.25-188.75	0	1	0.00	.94
185.75-187.25	0	1	0.00	.94
184.25-185.75	1	1	.94	.94

2W FUNCTIONAL REACH

RANGES	FRQ	CUMF	FRQ%	CUMF%
89.75- 88.25	2	106	1.89	100.00
87.25- 87.75	2	104	1.89	98.11
86.75- 87.25	2	102	1.89	96.23
86.25- 86.75	2	100	1.89	94.34
85.75- 86.25	1	98	.94	92.45
85.25- 85.75	2	97	1.89	91.51
84.75- 85.25	3	95	2.83	89.62
84.25- 84.75	3	92	2.83	86.79
83.75- 84.25	3	89	2.83	83.96
83.25- 83.75	3	86	2.83	81.13
82.75- 83.25	1	83	.94	78.30
82.25- 82.75	3	82	2.83	77.36
81.75- 82.25	3	79	2.83	74.53
81.25- 81.75	5	76	4.72	71.70
80.75- 81.25	3	71	2.83	66.98
80.25- 80.75	10	68	9.43	64.15
79.75- 80.25	3	58	2.83	54.72
79.25- 79.75	7	55	6.60	51.89
78.75- 79.25	10	48	9.43	45.28
78.25- 78.75	4	38	3.77	35.85
77.75- 78.25	6	34	5.66	32.08
77.25- 77.75	5	28	4.72	26.42
76.75- 77.25	4	23	3.77	21.70
76.25- 76.75	0	19	0.00	17.92
75.75- 76.25	2	19	1.89	17.92
75.25- 75.75	2	17	1.89	16.04
74.75- 75.25	2	15	1.89	14.15
74.25- 74.75	0	13	0.00	12.26
73.75- 74.25	4	13	3.77	12.26
73.25- 73.75	2	9	1.89	8.49
72.75- 73.25	1	7	.94	6.60
72.25- 72.75	0	6	0.00	5.66
71.75- 72.25	2	6	1.89	5.66
71.25- 71.75	0	4	0.00	3.77
70.75- 71.25	1	4	.94	3.77
70.25- 70.75	2	3	1.89	2.83
69.75- 70.25	0	1	0.00	.94
69.25- 69.75	0	1	0.00	.94
68.75- 69.25	1	1	.94	.94

FREQUENCY TABLES FOR WORK SPACE MEASUREMENTS

3W FUNCTIONAL RCH/EXT

RANGES	FRQ	CUMF	FRQ%	CUMF%
103.75-104.75	2	106	1.89	100.00
102.75-103.75	0	104	0.00	98.11
101.75-102.75	3	104	2.83	98.11
100.75-101.75	2	101	1.89	95.28
99.75-100.75	4	99	3.77	93.40
98.75- 99.75	0	95	0.00	89.62
97.75- 98.75	6	95	5.66	89.62
96.75- 97.75	2	89	1.89	83.96
95.75- 96.75	3	87	2.83	82.08
94.75- 95.75	5	84	4.72	79.25
93.75- 94.75	3	79	2.83	74.53
92.75- 93.75	14	76	13.21	71.70
91.75- 92.75	8	62	7.55	58.49
90.75- 91.75	8	54	7.55	50.94
89.75- 90.75	7	46	6.60	43.40
88.75- 89.75	10	39	9.43	36.79
87.75- 88.75	6	29	5.66	27.36
86.75- 87.75	3	23	2.83	21.70
85.75- 86.75	8	20	7.55	18.87
84.75- 85.75	3	12	2.83	11.32
83.75- 84.75	5	9	4.72	8.49
82.75- 83.75	2	4	1.89	3.77
81.75- 82.75	1	2	.94	1.89
80.75- 81.75	0	1	0.00	.94
79.75- 80.75	0	1	0.00	.94
78.75- 79.75	0	1	0.00	.94
77.75- 78.75	1	1	.94	.94

4W OVERHEAD REACH/SIT

RANGES	FRQ	CUMF	FRQ%	CUMF%
153.45-154.45	1	106	.94	100.00
152.45-153.45	0	105	0.00	99.06
151.45-152.45	1	105	.94	99.06
150.45-151.45	0	104	0.00	98.11
149.45-150.45	1	104	.94	98.11
148.45-149.45	1	103	.94	97.17
147.45-148.45	0	102	0.00	96.23
146.45-147.45	0	102	0.00	96.23
145.45-146.45	1	102	.94	96.23
144.45-145.45	5	101	4.72	95.28
143.45-144.45	1	96	.94	90.57
142.45-143.45	5	95	4.72	89.62
141.45-142.45	7	90	6.60	84.91
140.45-141.45	6	83	5.66	78.30
139.45-140.45	7	77	6.60	72.64
138.45-139.45	7	70	6.60	66.04
137.45-138.45	4	63	3.77	59.43
136.45-137.45	4	59	3.77	55.66
135.45-136.45	10	55	9.43	51.89
134.45-135.45	10	45	9.43	42.45
133.45-134.45	5	35	4.72	33.02
132.45-133.45	9	30	8.49	28.30
131.45-132.45	6	21	5.66	19.81
130.45-131.45	6	15	5.66	14.15
129.45-130.45	1	9	.94	8.49
128.45-129.45	3	8	2.83	7.55
127.45-128.45	0	5	0.00	4.72
126.45-127.45	2	5	1.89	4.72
125.45-126.45	0	3	0.00	2.83
124.45-125.45	0	3	0.00	2.83
123.45-124.45	1	3	.94	2.83
122.45-123.45	0	2	0.00	1.89
121.45-122.45	0	2	0.00	1.89
120.45-121.45	1	2	.94	1.89
119.45-120.45	0	1	0.00	.94
118.45-119.45	1	1	.94	.94

FREQUENCY TABLES FOR WORK SPACE MEASUREMENTS

5W FUNCTIONAL LEG LN

RANGES	FRQ	CUMF	FRQ%	CUMF%
130.75-131.75	2	106	1.89	100.00
129.75-130.75	0	104	0.00	98.11
128.75-129.75	0	104	0.00	98.11
127.75-128.75	3	104	2.83	98.11
126.75-127.75	3	101	2.83	95.28
125.75-126.75	2	98	1.89	92.45
124.75-125.75	4	96	3.77	90.57
123.75-124.75	2	92	1.89	86.79
122.75-123.75	4	90	3.77	84.91
121.75-122.75	9	86	8.49	81.13
120.75-121.75	7	77	6.60	72.64
119.75-120.75	9	70	8.49	66.04
118.75-119.75	7	61	6.60	57.55
117.75-118.75	6	54	5.66	50.94
116.75-117.75	10	48	9.43	45.28
115.75-116.75	6	38	5.66	35.85
114.75-115.75	6	32	5.66	30.19
113.75-114.75	4	26	3.77	24.53
112.75-113.75	2	22	1.89	20.75
111.75-112.75	7	20	6.60	18.87
110.75-111.75	7	13	6.60	12.26
109.75-110.75	4	6	3.77	5.66
108.75-109.75	1	2	.94	1.89
107.75-108.75	0	1	0.00	.94
106.75-107.75	0	1	0.00	.94
105.75-106.75	0	1	0.00	.94
104.75-105.75	1	1	.94	.94

6W WEIGHT (CLOTHED)

RANGES	FRQ	CUMF	FRQ%	CUMF%
224.75-227.25	1	106	.94	100.00
222.25-224.75	0	105	0.00	99.06
219.75-222.25	0	105	0.00	99.06
217.25-219.75	1	105	.94	99.06
214.75-217.25	0	104	0.00	98.11
212.25-214.75	0	104	0.00	98.11
209.75-212.25	0	104	0.00	98.11
207.25-209.75	1	104	.94	98.11
204.75-207.25	0	103	0.00	97.17
202.25-204.75	1	103	.94	97.17
199.75-202.25	1	102	.94	96.23
197.25-199.75	0	101	0.00	95.28
194.75-197.25	2	101	1.89	95.28
192.25-194.75	2	99	1.89	93.40
189.75-192.25	2	97	1.89	91.51
187.25-189.75	3	95	2.83	89.62
184.75-187.25	1	92	.94	86.79
182.25-184.75	2	91	1.89	85.85
179.75-182.25	2	89	1.89	83.96
177.25-179.75	3	87	2.83	82.08
174.75-177.25	5	84	4.72	79.25
172.25-174.75	1	79	.94	74.53
169.75-172.25	1	78	.94	73.58
167.25-169.75	2	77	1.89	72.64
164.75-167.25	5	75	4.72	70.75
162.25-164.75	3	70	2.83	66.04
159.75-162.25	5	67	4.72	63.21
157.25-159.75	5	62	4.72	58.49
154.75-157.25	7	57	6.60	53.77
152.25-154.75	6	50	5.66	47.17
149.75-152.25	4	44	3.77	41.51
147.25-149.75	2	40	1.89	37.74
144.75-147.25	6	38	5.66	35.85
142.25-144.75	11	32	10.38	30.19
139.75-142.25	4	21	3.77	19.81
137.25-139.75	5	17	4.72	16.04
134.75-137.25	1	12	.94	11.32
132.25-134.75	3	11	2.83	10.38
129.75-132.25	0	8	0.00	7.55
127.25-129.75	3	8	2.83	7.55
124.75-127.25	3	5	2.83	4.72
122.25-124.75	1	2	.94	1.89
119.75-122.25	0	1	0.00	.94
117.25-119.75	0	1	0.00	.94
114.75-117.25	0	1	0.00	.94
112.25-114.75	0	1	0.00	.94
109.75-112.25	0	1	0.00	.94
107.25-109.75	1	1	.94	.94

FREQUENCY TABLES FOR WORK SPACE MEASUREMENTS

7W STATURE (CLOTHED)

RANGES	FRQ	CUMF	FRQ%	CUMF%
195.75-196.75	1	106	.94	100.00
194.75-195.75	0	105	0.00	99.06
193.75-194.75	0	105	0.00	99.06
192.75-193.75	0	105	0.00	99.06
191.75-192.75	0	105	0.00	99.06
190.75-191.75	0	105	0.00	99.06
189.75-190.75	2	105	1.89	99.06
188.75-189.75	3	103	2.83	97.17
187.75-188.75	1	100	.94	94.34
186.75-187.75	0	99	0.00	93.40
185.75-186.75	6	99	5.66	93.40
184.75-185.75	2	93	1.89	87.74
183.75-184.75	2	91	1.89	85.85
182.75-183.75	4	89	3.77	83.96
181.75-182.75	8	85	7.55	80.19
180.75-181.75	7	77	6.60	72.64
179.75-180.75	3	70	2.83	66.04
178.75-179.75	5	67	4.72	63.21
177.75-178.75	7	62	6.60	58.49
176.75-177.75	10	55	9.43	51.89
175.75-176.75	6	45	5.66	42.45
174.75-175.75	8	39	7.55	36.79
173.75-174.75	2	31	1.89	29.25
172.75-173.75	6	29	5.66	27.36
171.75-172.75	8	23	7.55	21.70
170.75-171.75	4	15	3.77	14.15
169.75-170.75	2	11	1.89	10.38
168.75-169.75	3	9	2.83	8.49
167.75-168.75	3	6	2.83	5.66
166.75-167.75	0	3	0.00	2.83
165.75-166.75	0	3	0.00	2.83
164.75-165.75	0	3	0.00	2.83
163.75-164.75	1	3	.94	2.83
162.75-163.75	0	2	0.00	1.89
161.75-162.75	0	2	0.00	1.89
160.75-161.75	2	2	1.89	1.89

8W OVERHEAD RCH BRDTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
44.05- 44.35	1	106	.94	100.00
43.75- 44.05	0	105	0.00	99.06
43.45- 43.75	0	105	0.00	99.06
43.15- 43.45	1	105	.94	99.06
42.85- 43.15	0	104	0.00	98.11
42.55- 42.85	1	104	.94	98.11
42.25- 42.55	2	103	1.89	97.17
41.95- 42.25	0	101	0.00	95.28
41.65- 41.95	0	101	0.00	95.28
41.35- 41.65	2	101	1.89	95.28
41.05- 41.35	5	99	4.72	93.40
40.75- 41.05	1	94	.94	88.68
40.45- 40.75	4	93	3.77	87.74
40.15- 40.45	8	89	7.55	83.96
39.85- 40.15	5	81	4.72	76.42
39.55- 39.85	5	76	4.72	71.70
39.25- 39.55	3	71	2.83	66.98
38.95- 39.25	2	68	1.89	64.15
38.65- 38.95	7	66	6.60	62.26
38.35- 38.65	7	59	6.60	55.66
38.05- 38.35	6	52	5.66	49.06
37.75- 38.05	6	46	5.66	43.40
37.45- 37.75	7	40	6.60	37.74
37.15- 37.45	7	33	6.60	31.13
36.85- 37.15	7	26	6.60	24.53
36.55- 36.85	4	19	3.77	17.92
36.25- 36.55	0	15	0.00	14.15
35.95- 36.25	2	15	1.89	14.15
35.65- 35.95	3	13	2.83	12.26
35.35- 35.65	0	10	0.00	9.43
35.05- 35.35	5	10	4.72	9.43
34.75- 35.05	2	5	1.89	4.72
34.45- 34.75	1	3	.94	2.83
34.15- 34.45	1	2	.94	1.89
33.85- 34.15	0	1	0.00	.94
33.55- 33.85	1	1	.94	.94

FREQUENCY TABLES FOR WORK SPACE MEASUREMENTS

9W BENT TORSO HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
151.75-152.75	3	106	2.83	100.00
150.75-151.75	1	103	.94	97.17
149.75-150.75	1	102	.94	96.23
148.75-149.75	2	101	1.89	95.28
147.75-148.75	2	99	1.89	93.40
146.75-147.75	2	97	1.89	91.51
145.75-146.75	5	95	4.72	89.62
144.75-145.75	1	90	.94	84.91
143.75-144.75	6	89	5.66	83.96
142.75-143.75	5	83	4.72	78.30
141.75-142.75	4	78	3.77	73.58
140.75-141.75	2	74	1.89	69.81
139.75-140.75	6	72	5.66	67.92
138.75-139.75	4	66	3.77	62.26
137.75-138.75	5	62	4.72	58.49
136.75-137.75	5	57	4.72	53.77
135.75-136.75	5	52	4.72	49.06
134.75-135.75	3	47	2.83	44.34
133.75-134.75	4	44	3.77	41.51
132.75-133.75	11	40	10.38	37.74
131.75-132.75	7	29	6.60	27.36
130.75-131.75	3	22	2.83	20.75
129.75-130.75	2	19	1.89	17.92
128.75-129.75	3	17	2.83	16.04
127.75-128.75	3	14	2.83	13.21
126.75-127.75	3	11	2.83	10.38
125.75-126.75	3	8	2.83	7.55
124.75-125.75	1	5	.94	4.72
123.75-124.75	0	4	0.00	3.77
122.75-123.75	3	4	2.83	3.77
121.75-122.75	0	1	0.00	.94
120.75-121.75	0	1	0.00	.94
119.75-120.75	1	1	.94	.94

10W BENT TORSO BREADTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
51.55- 51.85	1	106	.94	100.00
51.25- 51.55	0	105	0.00	99.06
50.95- 51.25	0	105	0.00	99.06
50.65- 50.95	0	105	0.00	99.06
50.35- 50.65	0	105	0.00	99.06
50.05- 50.35	0	105	0.00	99.06
49.75- 50.05	1	105	.94	99.06
49.45- 49.75	1	104	.94	98.11
49.15- 49.45	0	103	0.00	97.17
48.85- 49.15	1	103	.94	97.17
48.55- 48.85	0	102	0.00	96.23
48.25- 48.55	2	102	1.89	96.23
47.95- 48.25	1	100	.94	94.34
47.65- 47.95	1	99	.94	93.40
47.35- 47.65	3	98	2.83	92.45
47.05- 47.35	1	95	.94	89.62
46.75- 47.05	7	94	6.60	88.68
46.45- 46.75	2	87	1.89	82.08
46.15- 46.45	3	85	2.83	80.19
45.85- 46.15	5	82	4.72	77.36
45.55- 45.85	2	77	1.89	72.64
45.25- 45.55	8	75	7.55	70.75
44.95- 45.25	13	67	12.26	63.21
44.65- 44.95	6	54	5.66	50.94
44.35- 44.65	9	48	8.49	45.28
44.05- 44.35	6	39	5.66	36.79
43.75- 44.05	2	33	1.89	31.13
43.45- 43.75	5	31	4.72	29.25
43.15- 43.45	2	26	1.89	24.53
42.85- 43.15	5	24	4.72	22.64
42.55- 42.85	1	19	.94	17.92
42.25- 42.55	4	18	3.77	16.98
41.95- 42.25	1	14	.94	13.21
41.65- 41.95	6	13	5.66	12.26
41.35- 41.65	0	7	0.00	6.60
41.05- 41.35	1	7	.94	6.60
40.75- 41.05	1	6	.94	5.66
40.45- 40.75	0	5	0.00	4.72
40.15- 40.45	2	5	1.89	4.72
39.85- 40.15	0	3	0.00	2.83
39.55- 39.85	1	3	.94	2.83
39.25- 39.55	0	2	0.00	1.89
38.95- 39.25	0	2	0.00	1.89
38.65- 38.95	1	2	.94	1.89
38.35- 38.65	0	1	0.00	.94
38.05- 38.35	0	1	0.00	.94
37.75- 38.05	1	1	.94	.94

FREQUENCY TABLES FOR WORK SPACE MEASUREMENTS

11W KNEELING HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
141.25-141.75	1	106	.94	100.00
140.75-141.25	0	105	0.00	99.06
140.25-140.75	0	105	0.00	99.06
139.75-140.25	0	105	0.00	99.06
139.25-139.75	1	105	.94	99.06
138.75-139.25	0	104	0.00	98.11
138.25-138.75	0	104	0.00	98.11
137.75-138.25	0	104	0.00	98.11
137.25-137.75	3	104	2.83	98.11
136.75-137.25	1	101	.94	95.28
136.25-136.75	0	100	0.00	94.34
135.75-136.25	3	100	2.83	94.34
135.25-135.75	1	97	.94	91.51
134.75-135.25	1	96	.94	90.57
134.25-134.75	1	95	.94	89.62
133.75-134.25	5	94	4.72	88.68
133.25-133.75	1	89	.94	83.96
132.75-133.25	6	88	5.66	83.02
132.25-132.75	6	82	5.66	77.36
131.75-132.25	1	76	.94	71.70
131.25-131.75	6	75	5.66	70.75
130.75-131.25	6	69	5.66	65.09
130.25-130.75	3	63	2.83	59.43
129.75-130.25	2	60	1.89	56.60
129.25-129.75	3	58	2.83	54.72
128.75-129.25	3	55	2.83	51.89
128.25-128.75	2	52	1.89	49.06
127.75-128.25	5	50	4.72	47.17
127.25-127.75	4	45	3.77	42.45
126.75-127.25	7	41	6.60	38.68
126.25-126.75	5	34	4.72	32.08
125.75-126.25	4	29	3.77	27.36
125.25-125.75	8	25	7.55	23.58
124.75-125.25	2	17	1.89	16.04
124.25-124.75	2	15	1.89	14.15
123.75-124.25	2	13	1.89	12.26
123.25-123.75	0	11	0.00	10.38
122.75-123.25	5	11	4.72	10.38
122.25-122.75	2	6	1.89	5.66
121.75-122.25	1	4	.94	3.77
121.25-121.75	0	3	0.00	2.83
120.75-121.25	0	3	0.00	2.83
120.25-120.75	0	3	0.00	2.83
119.75-120.25	0	3	0.00	2.83
119.25-119.75	0	3	0.00	2.83
118.75-119.25	0	3	0.00	2.83
118.25-118.75	1	3	.94	2.83
117.75-118.25	1	2	.94	1.89
117.25-117.75	0	1	0.00	.94
116.75-117.25	1	1	.94	.94

12W KNEELING LEG LNGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
78.75- 79.25	1	106	.94	100.00
78.25- 78.75	0	105	0.00	99.06
77.75- 78.25	0	105	0.00	99.06
77.25- 77.75	0	105	0.00	99.06
76.75- 77.25	0	105	0.00	99.06
76.25- 76.75	0	105	0.00	99.06
75.75- 76.25	2	105	1.89	99.06
75.25- 75.75	4	103	3.77	97.17
74.75- 75.25	1	99	.94	93.40
74.25- 74.75	1	98	.94	92.45
73.75- 74.25	4	97	3.77	91.51
73.25- 73.75	1	93	.94	87.74
72.75- 73.25	4	92	3.77	86.79
72.25- 72.75	5	88	4.72	83.02
71.75- 72.25	3	83	2.83	78.30
71.25- 71.75	2	80	1.89	75.47
70.75- 71.25	12	78	11.32	73.58
70.25- 70.75	4	66	3.77	62.26
69.75- 70.25	6	62	5.66	58.49
69.25- 69.75	5	56	4.72	52.83
68.75- 69.25	6	51	5.66	48.11
68.25- 68.75	5	45	4.72	42.45
67.75- 68.25	5	40	4.72	37.74
67.25- 67.75	5	35	4.72	33.02
66.75- 67.25	7	30	6.60	28.30
66.25- 66.75	4	23	3.77	21.70
65.75- 66.25	2	19	1.89	17.92
65.25- 65.75	4	17	3.77	16.04
64.75- 65.25	5	13	4.72	12.26
64.25- 64.75	2	8	1.89	7.55
63.75- 64.25	1	6	.94	5.66
63.25- 63.75	1	5	.94	4.72
62.75- 63.25	0	4	0.00	3.77
62.25- 62.75	1	4	.94	3.77
61.75- 62.25	0	3	0.00	2.83
61.25- 61.75	1	3	.94	2.83
60.75- 61.25	0	2	0.00	1.89
60.25- 60.75	0	2	0.00	1.89
59.75- 60.25	0	2	0.00	1.89
59.25- 59.75	1	2	.94	1.89
58.75- 59.25	0	1	0.00	.94
58.25- 58.75	0	1	0.00	.94
57.75- 58.25	0	1	0.00	.94
57.25- 57.75	0	1	0.00	.94
56.75- 57.25	1	1	.94	.94

FREQUENCY TABLES FOR WORK SPACE MEASUREMENTS

13W BENT KNEE HEIGHT

RANGES	FRQ	CUMF	FRQ%	CUMF%
54.85- 55.15	1	106	.94	100.00
54.55- 54.85	0	105	0.00	99.06
54.25- 54.55	1	105	.94	99.06
53.95- 54.25	2	104	1.89	98.11
53.65- 53.95	1	102	.94	96.23
53.35- 53.65	1	101	.94	95.28
53.05- 53.35	2	100	1.89	94.34
52.75- 53.05	3	98	2.83	92.45
52.45- 52.75	1	95	.94	89.62
52.15- 52.45	1	94	.94	88.68
51.85- 52.15	3	93	2.83	87.74
51.55- 51.85	5	90	4.72	84.91
51.25- 51.55	3	85	2.83	80.19
50.95- 51.25	3	82	2.83	77.36
50.65- 50.95	5	79	4.72	74.53
50.35- 50.65	6	74	5.66	69.81
50.05- 50.35	2	68	1.89	64.15
49.75- 50.05	1	66	.94	62.26
49.45- 49.75	3	65	2.83	61.32
49.15- 49.45	6	62	5.66	58.49
48.85- 49.15	2	56	1.89	52.83
48.55- 48.85	4	54	3.77	50.94
48.25- 48.55	6	50	5.66	47.17
47.95- 48.25	5	44	4.72	41.51
47.65- 47.95	7	39	6.60	36.79
47.35- 47.65	3	32	2.83	30.19
47.05- 47.35	5	29	4.72	27.36
46.75- 47.05	2	24	1.89	22.64
46.45- 46.75	7	22	6.60	20.75
46.15- 46.45	3	15	2.83	14.15
45.85- 46.15	3	12	2.83	11.32
45.55- 45.85	1	9	.94	8.49
45.25- 45.55	0	8	0.00	7.55
44.95- 45.25	1	8	.94	7.55
44.65- 44.95	1	7	.94	6.60
44.35- 44.65	0	6	0.00	5.66
44.05- 44.35	2	6	1.89	5.66
43.75- 44.05	1	4	.94	3.77
43.45- 43.75	2	3	1.89	2.83
43.15- 43.45	0	1	0.00	.94
42.85- 43.15	0	1	0.00	.94
42.55- 42.85	0	1	0.00	.94
42.25- 42.55	0	1	0.00	.94
41.95- 42.25	0	1	0.00	.94
41.65- 41.95	1	1	.94	.94

14W HORIZ L/KNEES BENT

RANGES	FRQ	CUMF	FRQ%	CUMF%
174.75-175.75	2	106	1.89	100.00
173.75-174.75	3	104	2.83	98.11
172.75-173.75	1	101	.94	95.28
171.75-172.75	3	100	2.83	94.34
170.75-171.75	2	97	1.89	91.51
169.75-170.75	3	95	2.83	89.62
168.75-169.75	3	92	2.83	86.79
167.75-168.75	1	89	.94	83.96
166.75-167.75	4	88	3.77	83.02
165.75-166.75	3	84	2.83	79.25
164.75-165.75	8	81	7.55	76.42
163.75-164.75	5	73	4.72	68.87
162.75-163.75	4	68	3.77	64.15
161.75-162.75	8	64	7.55	60.38
160.75-161.75	2	56	1.89	52.83
159.75-160.75	7	54	6.60	50.94
158.75-159.75	8	47	7.55	44.34
157.75-158.75	3	39	2.83	36.79
156.75-157.75	6	36	5.66	33.96
155.75-156.75	7	30	6.60	28.30
154.75-155.75	2	23	1.89	21.70
153.75-154.75	4	21	3.77	19.81
152.75-153.75	4	17	3.77	16.04
151.75-152.75	5	13	4.72	12.26
150.75-151.75	3	8	2.83	7.55
149.75-150.75	2	5	1.89	4.72
148.75-149.75	2	3	1.89	2.83
147.75-148.75	1	1	.94	.94

FREQUENCY TABLES FOR WORK SPACE MEASUREMENTS

1C WEIGHT-NUDE

RANGES	FRQ	CUMF	FRQ%	CUMF%
219.75-222.25	1	106	.94	100.00
217.25-219.75	0	105	0.00	99.06
214.75-217.25	0	105	0.00	99.06
212.25-214.75	0	105	0.00	99.06
209.75-212.25	1	105	.94	99.06
207.25-209.75	0	104	0.00	98.11
204.75-207.25	0	104	0.00	98.11
202.25-204.75	0	104	0.00	98.11
199.75-202.25	1	104	.94	98.11
197.25-199.75	0	103	0.00	97.17
194.75-197.25	2	103	1.89	97.17
192.25-194.75	0	101	0.00	95.28
189.75-192.25	1	101	.94	95.28
187.25-189.75	1	100	.94	94.34
184.75-187.25	3	99	2.83	93.40
182.25-184.75	2	96	1.89	90.57
179.75-182.25	2	94	1.89	88.68
177.25-179.75	1	92	.94	86.79
174.75-177.25	3	91	2.83	85.85
172.25-174.75	3	88	2.83	83.02
169.75-172.25	5	85	4.72	80.19
167.25-169.75	2	80	1.89	75.47
164.75-167.25	1	78	.94	73.58
162.25-164.75	2	77	1.89	72.64
159.75-162.25	4	75	3.77	70.75
157.25-159.75	5	71	4.72	66.98
154.75-157.25	4	66	3.77	62.26
152.25-154.75	4	62	3.77	58.49
149.75-152.25	7	58	6.60	54.72
147.25-149.75	5	51	4.72	48.11
144.75-147.25	3	46	2.83	43.40
142.25-144.75	6	43	5.66	40.57
139.75-142.25	2	37	1.89	34.91
137.25-139.75	10	35	9.43	33.02
134.75-137.25	8	25	7.55	23.58
132.25-134.75	4	17	3.77	16.04
129.75-132.25	2	13	1.89	12.26
127.25-129.75	3	11	2.83	10.38
124.75-127.25	0	8	0.00	7.55
122.25-124.75	2	8	1.89	7.55
119.75-122.25	2	6	1.89	5.66
117.25-119.75	3	4	2.83	3.77
114.75-117.25	0	1	0.00	.94
112.25-114.75	0	1	0.00	.94
109.75-112.25	0	1	0.00	.94
107.25-109.75	0	1	0.00	.94
104.75-107.25	0	1	0.00	.94
102.25-104.75	1	1	.94	.94

2C STATURE-NUDE

RANGES	FRQ	CUMF	FRQ%	CUMF%
192.75-193.75	1	106	.94	100.00
191.75-192.75	0	105	0.00	99.06
190.75-191.75	0	105	0.00	99.06
189.75-190.75	0	105	0.00	99.06
188.75-189.75	0	105	0.00	99.06
187.75-188.75	0	105	0.00	99.06
186.75-187.75	1	105	.94	99.06
185.75-186.75	1	104	.94	98.11
184.75-185.75	3	103	2.83	97.17
183.75-184.75	1	100	.94	94.34
182.75-183.75	3	99	2.83	93.40
181.75-182.75	3	96	2.83	90.57
180.75-181.75	4	93	3.77	87.74
179.75-180.75	3	89	2.83	83.96
178.75-179.75	4	86	3.77	81.13
177.75-178.75	4	82	3.77	77.36
176.75-177.75	8	78	7.55	73.58
175.75-176.75	5	70	4.72	66.04
174.75-175.75	5	65	4.72	61.32
173.75-174.75	10	60	9.43	56.60
172.75-173.75	4	50	3.77	47.17
171.75-172.75	7	46	6.60	43.40
170.75-171.75	7	39	6.60	36.79
169.75-170.75	5	32	4.72	30.19
168.75-169.75	6	27	5.66	25.47
167.75-168.75	6	21	5.66	19.81
166.75-167.75	4	15	3.77	14.15
165.75-166.75	3	11	2.83	10.38
164.75-165.75	1	8	.94	7.55
163.75-164.75	1	7	.94	6.60
162.75-163.75	3	6	2.83	5.66
161.75-162.75	0	3	0.00	2.83
160.75-161.75	0	3	0.00	2.83
159.75-160.75	1	3	.94	2.83
158.75-159.75	0	2	0.00	1.89
157.75-158.75	1	2	.94	1.89
156.75-157.75	0	1	0.00	.94
155.75-156.75	1	1	.94	.94

B-3. FREQUENCY TABLES FOR THE HEAD AND FACE SUBSERIES

1H SAGITTAL ARC

RANGES	FRQ	CUMF	FRQ%	CUMF%
38.75- 38.95	1	102	.98	100.00
38.55- 38.75	0	101	0.00	99.02
38.35- 38.55	1	101	.98	99.02
38.15- 38.35	1	100	.98	98.04
37.95- 38.15	1	99	.98	97.06
37.75- 37.95	1	98	.98	96.08
37.55- 37.75	0	97	0.00	95.10
37.35- 37.55	1	97	.98	95.10
37.15- 37.35	1	96	.98	94.12
36.95- 37.15	1	95	.98	93.14
36.75- 36.95	3	94	2.94	92.16
36.55- 36.75	1	91	.98	89.22
36.35- 36.55	0	90	0.00	88.24
36.15- 36.35	5	90	4.90	88.24
35.95- 36.15	3	85	2.94	83.33
35.75- 35.95	5	82	4.90	80.39
35.55- 35.75	1	77	.98	75.49
35.35- 35.55	5	76	4.90	74.51
35.15- 35.35	7	71	6.86	69.61
34.95- 35.15	6	64	5.88	62.75
34.75- 34.95	10	58	9.80	56.86
34.55- 34.75	4	48	3.92	47.06
34.35- 34.55	5	44	4.90	43.14
34.15- 34.35	8	39	7.84	38.24
33.95- 34.15	2	31	1.96	30.39
33.75- 33.95	5	29	4.90	28.43
33.55- 33.75	1	24	.98	23.53
33.35- 33.55	7	23	6.86	22.55
33.15- 33.35	4	16	3.92	15.69
32.95- 33.15	6	12	5.88	11.76
32.75- 32.95	1	6	.98	5.88
32.55- 32.75	2	5	1.96	4.90
32.35- 32.55	0	3	0.00	2.94
32.15- 32.35	0	3	0.00	2.94
31.95- 32.15	0	3	0.00	2.94
31.75- 31.95	0	3	0.00	2.94
31.55- 31.75	1	3	.98	2.94
31.35- 31.55	1	2	.98	1.96
31.15- 31.35	0	1	0.00	.98
30.95- 31.15	0	1	0.00	.98
30.75- 30.95	0	1	0.00	.98
30.55- 30.75	0	1	0.00	.98
30.35- 30.55	0	1	0.00	.98
30.15- 30.35	0	1	0.00	.98
29.95- 30.15	1	1	.98	.98

2H BITEMPORAL-CORONAL ARC

RANGES	FRQ	CUMF	FRQ%	CUMF%
37.15- 37.35	1	102	.98	100.00
36.95- 37.15	0	101	0.00	99.02
36.75- 36.95	0	101	0.00	99.02
36.55- 36.75	0	101	0.00	99.02
36.35- 36.55	2	101	1.96	99.02
36.15- 36.35	1	99	.98	97.06
35.95- 36.15	4	98	3.92	96.08
35.75- 35.95	4	94	3.92	92.16
35.55- 35.75	1	90	.98	88.24
35.35- 35.55	3	89	2.94	87.25
35.15- 35.35	0	86	0.00	84.31
34.95- 35.15	14	86	13.73	84.31
34.75- 34.95	7	72	6.86	70.59
34.55- 34.75	3	65	2.94	63.73
34.35- 34.55	7	62	6.86	60.78
34.15- 34.35	5	55	4.90	53.92
33.95- 34.15	6	50	5.88	49.02
33.75- 33.95	4	44	3.92	43.14
33.55- 33.75	4	40	3.92	39.22
33.35- 33.55	7	36	6.86	35.29
33.15- 33.35	4	29	3.92	28.43
32.95- 33.15	9	25	8.82	24.51
32.75- 32.95	1	16	.98	15.69
32.55- 32.75	2	15	1.96	14.71
32.35- 32.55	5	13	4.90	12.75
32.15- 32.35	2	8	1.96	7.84
31.95- 32.15	1	6	.98	5.88
31.75- 31.95	0	5	0.00	4.90
31.55- 31.75	2	5	1.96	4.90
31.35- 31.55	2	3	1.96	2.94
31.15- 31.35	0	1	0.00	.98
30.95- 31.15	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

3H BITEON-FRONTAL ARC

RANGES	FRQ	CUMF	FRQ%	CUMF%
31.55- 31.75	2	102	1.96	100.00
31.35- 31.55	2	100	1.96	98.04
31.15- 31.35	1	98	.98	96.08
30.95- 31.15	3	97	2.94	95.10
30.75- 30.95	2	94	1.96	92.16
30.55- 30.75	3	92	2.94	90.20
30.35- 30.55	4	89	3.92	87.25
30.15- 30.35	3	85	2.94	83.33
29.95- 30.15	7	82	6.86	80.39
29.75- 29.95	5	75	4.90	73.53
29.55- 29.75	10	70	9.80	68.63
29.35- 29.55	11	60	10.78	58.82
29.15- 29.35	9	49	8.82	48.04
28.95- 29.15	3	40	2.94	39.22
28.75- 28.95	4	37	3.92	36.27
28.55- 28.75	5	33	4.90	32.35
28.35- 28.55	9	28	8.82	27.45
28.15- 28.35	4	19	3.92	18.63
27.95- 28.15	7	15	6.86	14.71
27.75- 27.95	0	8	0.00	7.84
27.55- 27.75	3	8	2.94	7.84
27.35- 27.55	2	5	1.96	4.90
27.15- 27.35	1	3	.98	2.94
26.95- 27.15	1	2	.98	1.96
26.75- 26.95	0	1	0.00	.98
26.55- 26.75	0	1	0.00	.98
26.35- 26.55	1	1	.98	.98

4H BITEON-MENTON ARC

RANGES	FRQ	CUMF	FRQ%	CUMF%
34.15- 34.35	1	102	.98	100.00
33.95- 34.15	1	101	.98	99.02
33.75- 33.95	0	100	0.00	98.04
33.55- 33.75	0	100	0.00	98.04
33.35- 33.55	2	100	1.96	98.04
33.15- 33.35	1	98	.98	96.08
32.95- 33.15	1	97	.98	95.10
32.75- 32.95	3	96	2.94	94.12
32.55- 32.75	5	93	4.90	91.18
32.35- 32.55	4	88	3.92	86.27
32.15- 32.35	8	84	7.84	82.35
31.95- 32.15	5	76	4.90	74.51
31.75- 31.95	3	71	2.94	69.61
31.55- 31.75	4	68	3.92	66.67
31.35- 31.55	8	64	7.84	62.75
31.15- 31.35	3	56	2.94	54.90
30.95- 31.15	8	53	7.84	51.96
30.75- 30.95	5	45	4.90	44.12
30.55- 30.75	3	40	2.94	39.22
30.35- 30.55	8	37	7.84	36.27
30.15- 30.35	2	29	1.96	28.43
29.95- 30.15	7	27	6.86	26.47
29.75- 29.95	3	20	2.94	19.61
29.55- 29.75	2	17	1.96	16.67
29.35- 29.55	5	15	4.90	14.71
29.15- 29.35	3	10	2.94	9.80
28.95- 29.15	2	7	1.96	6.86
28.75- 28.95	0	5	0.00	4.90
28.55- 28.75	4	5	3.92	4.90
28.35- 28.55	0	1	0.00	.98
28.15- 28.35	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

5H BIT-SUBMANDBLR ARC

RANGES	FRQ	CUMF	FRQ%	CUMF%
31.75- 31.95	1	102	.98	100.00
31.55- 31.75	0	101	0.00	99.02
31.35- 31.55	0	101	0.00	99.02
31.15- 31.35	0	101	0.00	99.02
30.95- 31.15	0	101	0.00	99.02
30.75- 30.95	4	101	3.92	99.02
30.55- 30.75	2	97	1.96	95.10
30.35- 30.55	4	95	3.92	93.14
30.15- 30.35	4	91	3.92	89.22
29.95- 30.15	2	87	1.96	85.29
29.75- 29.95	5	85	4.90	83.33
29.55- 29.75	5	80	4.90	78.43
29.35- 29.55	3	75	2.94	73.53
29.15- 29.35	6	72	5.88	70.59
28.95- 29.15	7	66	6.86	64.71
28.75- 28.95	6	59	5.88	57.84
28.55- 28.75	6	53	5.88	51.96
28.35- 28.55	5	47	4.90	46.08
28.15- 28.35	5	42	4.90	41.18
27.95- 28.15	3	37	2.94	36.27
27.75- 27.95	3	34	2.94	33.33
27.55- 27.75	2	31	1.96	30.39
27.35- 27.55	9	29	8.82	28.43
27.15- 27.35	5	20	4.90	19.61
26.95- 27.15	4	15	3.92	14.71
26.75- 26.95	4	11	3.92	10.78
26.55- 26.75	4	7	3.92	6.86
26.35- 26.55	1	3	.98	2.94
26.15- 26.35	1	2	.98	1.96
25.95- 26.15	0	1	0.00	.98
25.75- 25.95	1	1	.98	.98

6H GLABELLA TO WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
21.65- 21.75	1	102	.98	100.00
21.55- 21.65	0	101	0.00	99.02
21.45- 21.55	1	101	.98	99.02
21.35- 21.45	0	100	0.00	98.04
21.25- 21.35	0	100	0.00	98.04
21.15- 21.25	0	100	0.00	98.04
21.05- 21.15	0	100	0.00	98.04
20.95- 21.05	3	100	2.94	98.04
20.85- 20.95	2	97	1.96	95.10
20.75- 20.85	2	95	1.96	93.14
20.65- 20.75	2	93	1.96	91.18
20.55- 20.65	0	91	0.00	89.22
20.45- 20.55	3	91	2.94	89.22
20.35- 20.45	2	88	1.96	86.27
20.25- 20.35	1	86	.98	84.31
20.15- 20.25	4	85	3.92	83.33
20.05- 20.15	2	81	1.96	79.41
19.95- 20.05	1	79	.98	77.45
19.85- 19.95	3	78	2.94	76.47
19.75- 19.85	8	75	7.84	73.53
19.65- 19.75	8	67	7.84	65.69
19.55- 19.65	8	59	7.84	57.84
19.45- 19.55	8	51	7.84	50.00
19.35- 19.45	9	43	8.82	42.16
19.25- 19.35	4	34	3.92	33.33
19.15- 19.25	8	30	7.84	29.41
19.05- 19.15	6	22	5.88	21.57
18.95- 19.05	1	16	.98	15.69
18.85- 18.95	3	15	2.94	14.71
18.75- 18.85	2	12	1.96	11.76
18.65- 18.75	1	10	.98	9.80
18.55- 18.65	0	9	0.00	8.82
18.45- 18.55	4	9	3.92	8.82
18.35- 18.45	1	5	.98	4.90
18.25- 18.35	1	4	.98	3.92
18.15- 18.25	1	3	.98	2.94
18.05- 18.15	1	2	.98	1.96
17.95- 18.05	0	1	0.00	.98
17.85- 17.95	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

7H SELLION TO WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
21.55- 21.65	1	102	.98	100.00
21.45- 21.55	1	101	.98	99.02
21.35- 21.45	0	100	0.00	98.04
21.25- 21.35	0	100	0.00	98.04
21.15- 21.25	0	100	0.00	98.04
21.05- 21.15	1	100	.98	98.04
20.95- 21.05	0	99	0.00	97.06
20.85- 20.95	1	99	.98	97.06
20.75- 20.85	1	98	.98	96.08
20.65- 20.75	1	97	.98	95.10
20.55- 20.65	2	96	1.96	94.12
20.45- 20.55	1	94	.98	92.16
20.35- 20.45	3	93	2.94	91.18
20.25- 20.35	1	90	.98	88.24
20.15- 20.25	2	89	1.96	87.25
20.05- 20.15	1	87	.98	85.29
19.95- 20.05	6	86	5.88	84.31
19.85- 19.95	4	80	3.92	78.43
19.75- 19.85	3	76	2.94	74.51
19.65- 19.75	8	73	7.84	71.57
19.55- 19.65	6	65	5.88	63.73
19.45- 19.55	9	59	8.82	57.84
19.35- 19.45	8	50	7.84	49.02
19.25- 19.35	8	42	7.84	41.18
19.15- 19.25	6	34	5.88	33.33
19.05- 19.15	2	28	1.96	27.45
18.95- 19.05	7	26	6.86	25.49
18.85- 18.95	1	19	.98	18.63
18.75- 18.85	6	18	5.88	17.65
18.65- 18.75	2	12	1.96	11.76
18.55- 18.65	1	10	.98	9.80
18.45- 18.55	2	9	1.96	8.82
18.35- 18.45	2	7	1.96	6.86
18.25- 18.35	1	5	.98	4.90
18.15- 18.25	1	4	.98	3.92
18.05- 18.15	0	3	0.00	2.94
17.95- 18.05	1	3	.98	2.94
17.85- 17.95	1	2	.98	1.96
17.75- 17.85	0	1	0.00	.98
17.65- 17.75	1	1	.98	.98

8H PRONASALE TO WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
24.25- 24.35	1	102	.98	100.00
24.15- 24.25	0	101	0.00	99.02
24.05- 24.15	0	101	0.00	99.02
23.95- 24.05	0	101	0.00	99.02
23.85- 23.95	1	101	.98	99.02
23.75- 23.85	0	100	0.00	98.04
23.65- 23.75	2	100	1.96	98.04
23.55- 23.65	0	98	0.00	96.08
23.45- 23.55	0	98	0.00	96.08
23.35- 23.45	1	98	.98	96.08
23.25- 23.35	2	97	1.96	95.10
23.15- 23.25	4	95	3.92	93.14
23.05- 23.15	1	91	.98	89.22
22.95- 23.05	6	90	5.88	88.24
22.85- 22.95	3	84	2.94	82.35
22.75- 22.85	5	81	4.90	79.41
22.65- 22.75	5	76	4.90	74.51
22.55- 22.65	1	71	.98	69.61
22.45- 22.55	2	70	1.96	68.63
22.35- 22.45	4	68	3.92	66.67
22.25- 22.35	10	64	9.80	62.75
22.15- 22.25	4	54	3.92	52.94
22.05- 22.15	1	50	.98	49.02
21.95- 22.05	13	49	12.75	48.04
21.85- 21.95	6	36	5.88	35.29
21.75- 21.85	5	30	4.90	29.41
21.65- 21.75	1	25	.98	24.51
21.55- 21.65	2	24	1.96	23.53
21.45- 21.55	6	22	5.88	21.57
21.35- 21.45	4	16	3.92	15.69
21.25- 21.35	3	12	2.94	11.76
21.15- 21.25	3	9	2.94	8.82
21.05- 21.15	0	6	0.00	5.88
20.95- 21.05	1	6	.98	5.88
20.85- 20.95	1	5	.98	4.90
20.75- 20.85	1	4	.98	3.92
20.65- 20.75	2	3	1.96	2.94
20.55- 20.65	0	1	0.00	.98
20.45- 20.55	0	1	0.00	.98
20.35- 20.45	0	1	0.00	.98
20.25- 20.35	0	1	0.00	.98
20.15- 20.25	0	1	0.00	.98
20.05- 20.15	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

9H SUBNASALE TO WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
23.25- 23.35	1	102	.98	100.00
23.15- 23.25	0	101	0.00	99.02
23.05- 23.15	0	101	0.00	99.02
22.95- 23.05	1	101	.98	99.02
22.85- 22.95	0	100	0.00	98.04
22.75- 22.85	0	100	0.00	98.04
22.65- 22.75	1	100	.98	98.04
22.55- 22.65	0	99	0.00	97.06
22.45- 22.55	0	99	0.00	97.06
22.35- 22.45	0	99	0.00	97.06
22.25- 22.35	3	99	2.94	97.06
22.15- 22.25	1	96	.98	94.12
22.05- 22.15	0	95	0.00	93.14
21.95- 22.05	1	95	.98	93.14
21.85- 21.95	2	94	1.96	92.16
21.75- 21.85	1	92	.98	90.20
21.65- 21.75	2	91	1.96	89.22
21.55- 21.65	5	89	4.90	87.25
21.45- 21.55	5	84	4.90	82.35
21.35- 21.45	3	79	2.94	77.45
21.25- 21.35	2	76	1.96	74.51
21.15- 21.25	5	74	4.90	72.55
21.05- 21.15	5	69	4.90	67.65
20.95- 21.05	5	64	4.90	62.75
20.85- 20.95	7	59	6.86	57.84
20.75- 20.85	4	52	3.92	50.98
20.65- 20.75	7	48	6.86	47.06
20.55- 20.65	8	41	7.84	40.20
20.45- 20.55	5	33	4.90	32.35
20.35- 20.45	5	28	4.90	27.45
20.25- 20.35	2	23	1.96	22.55
20.15- 20.25	3	21	2.94	20.59
20.05- 20.15	4	18	3.92	17.65
19.95- 20.05	3	14	2.94	13.73
19.85- 19.95	3	11	2.94	10.78
19.75- 19.85	0	8	0.00	7.84
19.65- 19.75	0	8	0.00	7.84
19.55- 19.65	4	8	3.92	7.84
19.45- 19.55	0	4	0.00	3.92
19.35- 19.45	1	4	.98	3.92
19.25- 19.35	2	3	1.96	2.94
19.15- 19.25	1	1	.98	.98

10H LIP PROTRUSION-WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
23.75- 23.95	1	102	.98	100.00
23.55- 23.75	1	101	.98	99.02
23.35- 23.55	1	100	.98	98.04
23.15- 23.35	0	99	0.00	97.06
22.95- 23.15	1	99	.98	97.06
22.75- 22.95	1	98	.98	96.08
22.55- 22.75	1	97	.98	95.10
22.35- 22.55	2	96	1.96	94.12
22.15- 22.35	3	94	2.94	92.16
21.95- 22.15	3	91	2.94	89.22
21.75- 21.95	5	88	4.90	86.27
21.55- 21.75	5	83	4.90	81.37
21.35- 21.55	7	78	6.86	76.47
21.15- 21.35	6	71	5.88	69.61
20.95- 21.15	10	65	9.80	63.73
20.75- 20.95	12	55	11.76	53.92
20.55- 20.75	7	43	6.86	42.16
20.35- 20.55	3	36	2.94	35.29
20.15- 20.35	7	33	6.86	32.35
19.95- 20.15	8	26	7.84	25.49
19.75- 19.95	6	18	5.88	17.65
19.55- 19.75	5	12	4.90	11.76
19.35- 19.55	4	7	3.92	6.86
19.15- 19.35	0	3	0.00	2.94
18.95- 19.15	2	3	1.96	2.94
18.75- 18.95	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

11H MENTON TO WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
23.55- 23.75	1	102	.98	100.00
23.35- 23.55	0	101	0.00	99.02
23.15- 23.35	0	101	0.00	99.02
22.95- 23.15	1	101	.98	99.02
22.75- 22.95	0	100	0.00	98.04
22.55- 22.75	1	100	.98	98.04
22.35- 22.55	1	99	.98	97.06
22.15- 22.35	3	98	2.94	96.08
21.95- 22.15	1	95	.98	93.14
21.75- 21.95	2	94	1.96	92.16
21.55- 21.75	3	92	2.94	90.20
21.35- 21.55	1	89	.98	87.25
21.15- 21.35	0	88	0.00	86.27
20.95- 21.15	10	88	9.80	86.27
20.75- 20.95	11	78	10.78	76.47
20.55- 20.75	7	67	6.86	65.69
20.35- 20.55	2	60	1.96	58.82
20.15- 20.35	6	58	5.88	56.86
19.95- 20.15	6	52	5.88	50.98
19.75- 19.95	8	46	7.84	45.10
19.55- 19.75	5	38	4.90	37.25
19.35- 19.55	9	33	8.82	32.35
19.15- 19.35	7	24	6.86	23.53
18.95- 19.15	3	17	2.94	16.67
18.75- 18.95	7	14	6.86	13.73
18.55- 18.75	3	7	2.94	6.86
18.35- 18.55	2	4	1.96	3.92
18.15- 18.35	1	2	.98	1.96
17.95- 18.15	0	1	0.00	.98
17.75- 17.95	0	1	0.00	.98
17.55- 17.75	1	1	.98	.98

12H ECTOCANTHUS-WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
19.45- 19.55	2	102	1.96	100.00
19.35- 19.45	0	100	0.00	98.04
19.25- 19.35	0	100	0.00	98.04
19.15- 19.25	0	100	0.00	98.04
19.05- 19.15	0	100	0.00	98.04
18.95- 19.05	2	100	1.96	98.04
18.85- 18.95	0	98	0.00	96.08
18.75- 18.85	2	98	1.96	96.08
18.65- 18.75	2	96	1.96	94.12
18.55- 18.65	1	94	.98	92.16
18.45- 18.55	1	93	.98	91.18
18.35- 18.45	1	92	.98	90.20
18.25- 18.35	1	91	.98	89.22
18.15- 18.25	3	90	2.94	88.24
18.05- 18.15	4	87	3.92	85.29
17.95- 18.05	8	83	7.84	81.37
17.85- 17.95	4	75	3.92	73.53
17.75- 17.85	6	71	5.88	69.61
17.65- 17.75	8	65	7.84	63.73
17.55- 17.65	5	57	4.90	55.88
17.45- 17.55	6	52	5.88	50.98
17.35- 17.45	5	46	4.90	45.10
17.25- 17.35	6	41	5.88	40.20
17.15- 17.25	5	35	4.90	34.31
17.05- 17.15	2	30	1.96	29.41
16.95- 17.05	5	28	4.90	27.45
16.85- 16.95	3	23	2.94	22.55
16.75- 16.85	4	20	3.92	19.61
16.65- 16.75	2	16	1.96	15.69
16.55- 16.65	3	14	2.94	13.73
16.45- 16.55	1	11	.98	10.78
16.35- 16.45	2	10	1.96	9.80
16.25- 16.35	4	8	3.92	7.84
16.15- 16.25	1	4	.98	3.92
16.05- 16.15	0	3	0.00	2.94
15.95- 16.05	1	3	.98	2.94
15.85- 15.95	0	2	0.00	1.96
15.75- 15.85	2	2	1.96	1.96

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

13H TRAGION TO WALL

RANGES	FRQ	CUMF	FRQ%	CUMF%
11.95- 12.05	1	102	.98	100.00
11.85- 11.95	1	101	.98	99.02
11.75- 11.85	1	100	.98	98.04
11.65- 11.75	1	99	.98	97.06
11.55- 11.65	1	98	.98	96.08
11.45- 11.55	1	97	.98	95.10
11.35- 11.45	3	96	2.94	94.12
11.25- 11.35	3	93	2.94	91.18
11.15- 11.25	2	90	1.96	88.24
11.05- 11.15	2	88	1.96	86.27
10.95- 11.05	3	86	2.94	84.31
10.85- 10.95	1	83	.98	81.37
10.75- 10.85	7	82	6.86	80.39
10.65- 10.75	5	75	4.90	73.53
10.55- 10.65	3	70	2.94	68.63
10.45- 10.55	4	67	3.92	65.69
10.35- 10.45	10	63	9.80	61.76
10.25- 10.35	7	53	6.86	51.96
10.15- 10.25	6	46	5.88	45.10
10.05- 10.15	7	40	6.86	39.22
9.95- 10.05	5	33	4.90	32.35
9.85- 9.95	4	28	3.92	27.45
9.75- 9.85	2	24	1.96	23.53
9.65- 9.75	6	22	5.88	21.57
9.55- 9.65	2	16	1.96	15.69
9.45- 9.55	1	14	.98	13.73
9.35- 9.45	4	13	3.92	12.75
9.25- 9.35	4	9	3.92	8.82
9.15- 9.25	0	5	0.00	4.90
9.05- 9.15	1	5	.98	4.90
8.95- 9.05	1	4	.98	3.92
8.85- 8.95	1	3	.98	2.94
8.75- 8.85	1	2	.98	1.96
8.65- 8.75	0	1	0.00	.98
8.55- 8.65	0	1	0.00	.98
8.45- 8.55	0	1	0.00	.98
8.35- 8.45	0	1	0.00	.98
8.25- 8.35	0	1	0.00	.98
8.15- 8.25	1	1	.98	.98

14H BITRAGION BREADTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
14.85- 14.95	2	102	1.96	100.00
14.75- 14.85	0	100	0.00	98.04
14.65- 14.75	1	100	.98	98.04
14.55- 14.65	1	99	.98	97.06
14.45- 14.55	1	98	.98	96.08
14.35- 14.45	1	97	.98	95.10
14.25- 14.35	3	96	2.94	94.12
14.15- 14.25	5	93	4.90	91.18
14.05- 14.15	2	88	1.96	86.27
13.95- 14.05	8	86	7.84	84.31
13.85- 13.95	8	78	7.84	76.47
13.75- 13.85	4	70	3.92	68.63
13.65- 13.75	8	66	7.84	64.71
13.55- 13.65	3	58	2.94	56.86
13.45- 13.55	10	55	9.80	53.92
13.35- 13.45	7	45	6.86	44.12
13.25- 13.35	3	38	2.94	37.25
13.15- 13.25	7	35	6.86	34.31
13.05- 13.15	5	28	4.90	27.45
12.95- 13.05	4	23	3.92	22.55
12.85- 12.95	4	19	3.92	18.63
12.75- 12.85	2	15	1.96	14.71
12.65- 12.75	4	13	3.92	12.75
12.55- 12.65	2	9	1.96	8.82
12.45- 12.55	4	7	3.92	6.86
12.35- 12.45	1	3	.98	2.94
12.25- 12.35	1	2	.98	1.96
12.15- 12.25	0	1	0.00	.98
12.05- 12.15	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

15H HEAD HT/TRAGN-VRTX

RANGES		FRQ	CUMF	FRQ%	CUMF%
15.35-	15.45	1	102	.98	100.00
15.25-	15.35	0	101	0.00	99.02
15.15-	15.25	0	101	0.00	99.02
15.05-	15.15	1	101	.98	99.02
14.95-	15.05	0	100	0.00	98.04
14.85-	14.95	0	100	0.00	98.04
14.75-	14.85	0	100	0.00	98.04
14.65-	14.75	0	100	0.00	98.04
14.55-	14.65	3	100	2.94	98.04
14.45-	14.55	3	97	2.94	95.10
14.35-	14.45	1	94	.98	92.16
14.25-	14.35	1	93	.98	91.18
14.15-	14.25	1	92	.98	90.20
14.05-	14.15	1	91	.98	89.22
13.95-	14.05	5	90	4.90	88.24
13.85-	13.95	5	85	4.90	83.33
13.75-	13.85	7	80	6.86	78.43
13.65-	13.75	6	73	5.88	71.57
13.55-	13.65	5	67	4.90	65.69
13.45-	13.55	10	62	9.80	60.78
13.35-	13.45	3	52	2.94	50.98
13.25-	13.35	9	49	8.82	48.04
13.15-	13.25	4	40	3.92	39.22
13.05-	13.15	5	36	4.90	35.29
12.95-	13.05	9	31	8.82	30.39
12.85-	12.95	4	22	3.92	21.57
12.75-	12.85	5	18	4.90	17.65
12.65-	12.75	0	13	0.00	12.75
12.55-	12.65	0	13	0.00	12.75
12.45-	12.55	2	13	1.96	12.75
12.35-	12.45	1	11	.98	10.78
12.25-	12.35	5	10	4.90	9.80
12.15-	12.25	2	5	1.96	4.90
12.05-	12.15	0	3	0.00	2.94
11.95-	12.05	1	3	.98	2.94
11.85-	11.95	1	2	.98	1.96
11.75-	11.85	0	1	0.00	.98
11.65-	11.75	0	1	0.00	.98
11.55-	11.65	0	1	0.00	.98
11.45-	11.55	1	1	.98	.98

16H ECTOCANTHUS-VERTEX

RANGES		FRQ	CUMF	FRQ%	CUMF%
13.25-	13.35	1	102	.98	100.00
13.15-	13.25	0	101	0.00	99.02
13.05-	13.15	0	101	0.00	99.02
12.95-	13.05	1	101	.98	99.02
12.85-	12.95	0	100	0.00	98.04
12.75-	12.85	1	100	.98	98.04
12.65-	12.75	1	99	.98	97.06
12.55-	12.65	0	98	0.00	96.08
12.45-	12.55	0	98	0.00	96.08
12.35-	12.45	2	98	1.96	96.08
12.25-	12.35	1	96	.98	94.12
12.15-	12.25	1	95	.98	93.14
12.05-	12.15	1	94	.98	92.16
11.95-	12.05	2	93	1.96	91.18
11.85-	11.95	2	91	1.96	89.22
11.75-	11.85	2	89	1.96	87.25
11.65-	11.75	9	87	8.82	85.29
11.55-	11.65	5	78	4.90	76.47
11.45-	11.55	3	73	2.94	71.57
11.35-	11.45	6	70	5.88	68.63
11.25-	11.35	3	64	2.94	62.75
11.15-	11.25	2	61	1.96	59.80
11.05-	11.15	1	59	.98	57.84
10.95-	11.05	6	58	5.88	56.86
10.85-	10.95	9	52	8.82	50.98
10.75-	10.85	4	43	3.92	42.16
10.65-	10.75	7	39	6.86	38.24
10.55-	10.65	3	32	2.94	31.37
10.45-	10.55	7	29	6.86	28.43
10.35-	10.45	3	22	2.94	21.57
10.25-	10.35	6	19	5.88	18.63
10.15-	10.25	1	13	.98	12.75
10.05-	10.15	1	12	.98	11.76
9.95-	10.05	1	11	.98	10.78
9.85-	9.95	4	10	3.92	9.80
9.75-	9.85	1	6	.98	5.88
9.65-	9.75	3	5	2.94	4.90
9.55-	9.65	0	2	0.00	1.96
9.45-	9.55	1	2	.98	1.96
9.35-	9.45	0	1	0.00	.98
9.25-	9.35	0	1	0.00	.98
9.15-	9.25	0	1	0.00	.98
9.05-	9.15	0	1	0.00	.98
8.95-	9.05	0	1	0.00	.98
8.85-	8.95	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

17H GLABELLA TO VERTEX

RANGES		FRQ	CUMF	FRQ%	CUMF%
9.75-	9.85	1	102	.98	100.00
9.65-	9.75	1	101	.98	99.02
9.55-	9.65	0	100	0.00	98.04
9.45-	9.55	0	100	0.00	98.04
9.35-	9.45	3	100	2.94	98.04
9.25-	9.35	2	97	1.96	95.10
9.15-	9.25	3	95	2.94	93.14
9.05-	9.15	0	92	0.00	90.20
8.95-	9.05	2	92	1.96	90.20
8.85-	8.95	4	90	3.92	88.24
8.75-	8.85	2	86	1.96	84.31
8.65-	8.75	6	84	5.88	82.35
8.55-	8.65	2	78	1.96	76.47
8.45-	8.55	2	76	1.96	74.51
8.35-	8.45	5	74	4.90	72.55
8.25-	8.35	3	69	2.94	67.65
8.15-	8.25	2	66	1.96	64.71
8.05-	8.15	3	64	2.94	62.75
7.95-	8.05	9	61	8.82	59.80
7.85-	7.95	4	52	3.92	50.98
7.75-	7.85	4	48	3.92	47.06
7.65-	7.75	2	44	1.96	43.14
7.55-	7.65	6	42	5.88	41.18
7.45-	7.55	2	36	1.96	35.29
7.35-	7.45	5	34	4.90	33.33
7.25-	7.35	4	29	3.92	28.43
7.15-	7.25	3	25	2.94	24.51
7.05-	7.15	2	22	1.96	21.57
6.95-	7.05	4	20	3.92	19.61
6.85-	6.95	5	16	4.90	15.69
6.75-	6.85	2	11	1.96	10.78
6.65-	6.75	2	9	1.96	8.82
6.55-	6.65	1	7	.98	6.86
6.45-	6.55	2	6	1.96	5.88
6.35-	6.45	3	4	2.94	3.92
6.25-	6.35	0	1	0.00	.98
6.15-	6.25	0	1	0.00	.98
6.05-	6.15	0	1	0.00	.98
5.95-	6.05	0	1	0.00	.98
5.85-	5.95	1	1	.98	.98

18H SELLION TO VERTEX

RANGES		FRQ	CUMF	FRQ%	CUMF%
12.45-	12.55	1	102	.98	100.00
12.35-	12.45	0	101	0.00	99.02
12.25-	12.35	0	101	0.00	99.02
12.15-	12.25	0	101	0.00	99.02
12.05-	12.15	0	101	0.00	99.02
11.95-	12.05	0	101	0.00	99.02
11.85-	11.95	0	101	0.00	99.02
11.75-	11.85	1	101	.98	99.02
11.65-	11.75	1	100	.98	98.04
11.55-	11.65	0	99	0.00	97.06
11.45-	11.55	1	99	.98	97.06
11.35-	11.45	1	98	.98	96.08
11.25-	11.35	1	97	.98	95.10
11.15-	11.25	2	96	1.96	94.12
11.05-	11.15	1	94	.98	92.16
10.95-	11.05	2	93	1.96	91.18
10.85-	10.95	0	91	0.00	89.22
10.75-	10.85	5	91	4.90	89.22
10.65-	10.75	0	86	0.00	84.31
10.55-	10.65	5	86	4.90	84.31
10.45-	10.55	0	81	0.00	79.41
10.35-	10.45	4	81	3.92	79.41
10.25-	10.35	3	77	2.94	75.49
10.15-	10.25	1	74	.98	72.55
10.05-	10.15	3	73	2.94	71.57
9.95-	10.05	8	70	7.84	68.63
9.85-	9.95	9	62	8.82	60.78
9.75-	9.85	1	53	.98	51.96
9.65-	9.75	4	52	3.92	50.98
9.55-	9.65	3	48	2.94	47.06
9.45-	9.55	0	45	0.00	44.12
9.35-	9.45	3	45	2.94	44.12
9.25-	9.35	6	42	5.88	41.18
9.15-	9.25	1	36	.98	35.29
9.05-	9.15	3	35	2.94	34.31
8.95-	9.05	5	32	4.90	31.37
8.85-	8.95	1	27	.98	26.47
8.75-	8.85	3	26	2.94	25.49
8.65-	8.75	5	23	4.90	22.55
8.55-	8.65	1	18	.98	17.65
8.45-	8.55	3	17	2.94	16.67
8.35-	8.45	2	14	1.96	13.73
8.25-	8.35	3	12	2.94	11.76
8.15-	8.25	4	9	3.92	8.82
8.05-	8.15	1	5	.98	4.90
7.95-	8.05	2	4	1.96	3.92
7.85-	7.95	1	2	.98	1.96
7.75-	7.85	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

19H PRONASALE TO VERTX

RANGES	FRQ	CUMF	FRQ%	CUMF%
16.15- 16.35	1	102	.98	100.00
15.95- 16.15	0	101	0.00	99.02
15.75- 15.95	0	101	0.00	99.02
15.55- 15.75	1	101	.98	99.02
15.35- 15.55	1	100	.98	98.04
15.15- 15.35	1	99	.98	97.06
14.95- 15.15	2	98	1.96	96.08
14.75- 14.95	2	96	1.96	94.12
14.55- 14.75	4	94	3.92	92.16
14.35- 14.55	1	90	.98	88.24
14.15- 14.35	7	89	6.86	87.25
13.95- 14.15	2	82	1.96	80.39
13.75- 13.95	5	80	4.90	78.43
13.55- 13.75	7	75	6.86	73.53
13.35- 13.55	5	68	4.90	66.67
13.15- 13.35	7	63	6.86	61.76
12.95- 13.15	10	56	9.80	54.90
12.75- 12.95	7	46	6.86	45.10
12.55- 12.75	4	39	3.92	38.24
12.35- 12.55	11	35	10.78	34.31
12.15- 12.35	6	24	5.88	23.53
11.95- 12.15	4	18	3.92	17.65
11.75- 11.95	7	14	6.86	13.73
11.55- 11.75	2	7	1.96	6.86
11.35- 11.55	2	5	1.96	4.90
11.15- 11.35	2	3	1.96	2.94
10.95- 11.15	0	1	0.00	.98
10.75- 10.95	1	1	.98	.98

20H SUBNASALE TO VERTX

RANGES	FRQ	CUMF	FRQ%	CUMF%
17.15- 17.35	1	102	.98	100.00
16.95- 17.15	0	101	0.00	99.02
16.75- 16.95	0	101	0.00	99.02
16.55- 16.75	0	101	0.00	99.02
16.35- 16.55	2	101	1.96	99.02
16.15- 16.35	2	99	1.96	97.06
15.95- 16.15	1	97	.98	95.10
15.75- 15.95	5	96	4.90	94.12
15.55- 15.75	4	91	3.92	89.22
15.35- 15.55	7	87	6.86	85.29
15.15- 15.35	5	80	4.90	78.43
14.95- 15.15	3	75	2.94	73.53
14.75- 14.95	8	72	7.84	70.59
14.55- 14.75	8	64	7.84	62.75
14.35- 14.55	10	56	9.80	54.90
14.15- 14.35	8	46	7.84	45.10
13.95- 14.15	6	38	5.88	37.25
13.75- 13.95	7	32	6.86	31.37
13.55- 13.75	7	25	6.86	24.51
13.35- 13.55	4	18	3.92	17.65
13.15- 13.35	8	14	7.84	13.73
12.95- 13.15	2	6	1.96	5.88
12.75- 12.95	2	4	1.96	3.92
12.55- 12.75	0	2	0.00	1.96
12.35- 12.55	1	2	.98	1.96
12.15- 12.35	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

21H STOMION TO VERTEX

RANGES	FRQ	CUMF	FRQ%	CUMF%
19.35- 19.55	1	102	.98	100.00
19.15- 19.35	0	101	0.00	99.02
18.95- 19.15	1	101	.98	99.02
18.75- 18.95	3	100	2.94	98.04
18.55- 18.75	1	97	.98	95.10
18.35- 18.55	4	96	3.92	94.12
18.15- 18.35	1	92	.98	90.20
17.95- 18.15	4	91	3.92	89.22
17.75- 17.95	6	87	5.88	85.29
17.55- 17.75	4	81	3.92	79.41
17.35- 17.55	5	77	4.90	75.49
17.15- 17.35	8	72	7.84	70.59
16.95- 17.15	8	64	7.84	62.75
16.75- 16.95	4	56	3.92	54.90
16.55- 16.75	8	52	7.84	50.98
16.35- 16.55	9	44	8.82	43.14
16.15- 16.35	11	35	10.78	34.31
15.95- 16.15	7	24	6.86	23.53
15.75- 15.95	4	17	3.92	16.67
15.55- 15.75	5	13	4.90	12.75
15.35- 15.55	3	8	2.94	7.84
15.15- 15.35	2	5	1.96	4.90
14.95- 15.15	1	3	.98	2.94
14.75- 14.95	1	2	.98	1.96
14.55- 14.75	0	1	0.00	.98
14.35- 14.55	1	1	.98	.98

22H MENTON TO VERTEX

RANGES	FRQ	CUMF	FRQ%	CUMF%
23.95- 24.15	1	102	.98	100.00
23.75- 23.95	1	101	.98	99.02
23.55- 23.75	0	100	0.00	98.04
23.35- 23.55	3	100	2.94	98.04
23.15- 23.35	0	97	0.00	95.10
22.95- 23.15	3	97	2.94	95.10
22.75- 22.95	2	94	1.96	92.16
22.55- 22.75	2	92	1.96	90.20
22.35- 22.55	4	90	3.92	88.24
22.15- 22.35	4	86	3.92	84.31
21.95- 22.15	7	82	6.86	80.39
21.75- 21.95	4	75	3.92	73.53
21.55- 21.75	4	71	3.92	69.61
21.35- 21.55	13	67	12.75	65.69
21.15- 21.35	12	54	11.76	52.94
20.95- 21.15	4	42	3.92	41.18
20.75- 20.95	5	38	4.90	37.25
20.55- 20.75	9	33	8.82	32.35
20.35- 20.55	5	24	4.90	23.53
20.15- 20.35	8	19	7.84	18.63
19.95- 20.15	5	11	4.90	10.78
19.75- 19.95	4	6	3.92	5.88
19.55- 19.75	0	2	0.00	1.96
19.35- 19.55	0	2	0.00	1.96
19.15- 19.35	1	2	.98	1.96
18.95- 19.15	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

23H FACE LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
13.15- 13.25	1	102	.98	100.00
13.05- 13.15	1	101	.98	99.02
12.95- 13.05	2	100	1.96	98.04
12.85- 12.95	2	98	1.96	96.08
12.75- 12.85	3	96	2.94	94.12
12.65- 12.75	1	93	.98	91.18
12.55- 12.65	2	92	1.96	90.20
12.45- 12.55	5	90	4.90	88.24
12.35- 12.45	2	85	1.96	83.33
12.25- 12.35	3	83	2.94	81.37
12.15- 12.25	3	80	2.94	78.43
12.05- 12.15	3	77	2.94	75.49
11.95- 12.05	8	74	7.84	72.55
11.85- 11.95	5	66	4.90	64.71
11.75- 11.85	6	61	5.88	59.80
11.65- 11.75	5	55	4.90	53.92
11.55- 11.65	9	50	8.82	49.02
11.45- 11.55	4	41	3.92	40.20
11.35- 11.45	4	37	3.92	36.27
11.25- 11.35	6	33	5.88	32.35
11.15- 11.25	4	27	3.92	26.47
11.05- 11.15	7	23	6.86	22.55
10.95- 11.05	6	16	5.88	15.69
10.85- 10.95	1	10	.98	9.80
10.75- 10.85	0	9	0.00	8.82
10.65- 10.75	2	9	1.96	8.82
10.55- 10.65	1	7	.98	6.86
10.45- 10.55	1	6	.98	5.88
10.35- 10.45	4	5	3.92	4.90
10.25- 10.35	0	1	0.00	.98
10.15- 10.25	1	1	.98	.98

24H CRINION-MENTON

RANGES	FRQ	CUMF	FRQ%	CUMF%
20.65- 20.75	1	102	.98	100.00
20.55- 20.65	1	101	.98	99.02
20.45- 20.55	0	100	0.00	98.04
20.35- 20.45	1	100	.98	98.04
20.25- 20.35	1	99	.98	97.06
20.15- 20.25	0	98	0.00	96.08
20.05- 20.15	0	98	0.00	96.08
19.95- 20.05	0	98	0.00	96.08
19.85- 19.95	0	98	0.00	96.08
19.75- 19.85	2	98	1.96	96.08
19.65- 19.75	2	96	1.96	94.12
19.55- 19.65	1	94	.98	92.16
19.45- 19.55	3	93	2.94	91.18
19.35- 19.45	4	90	3.92	88.24
19.25- 19.35	4	86	3.92	84.31
19.15- 19.25	2	82	1.96	80.39
19.05- 19.15	4	80	3.92	78.43
18.95- 19.05	6	76	5.88	74.51
18.85- 18.95	4	70	3.92	68.63
18.75- 18.85	5	66	4.90	64.71
18.65- 18.75	5	61	4.90	59.80
18.55- 18.65	4	56	3.92	54.90
18.45- 18.55	2	52	1.96	50.98
18.35- 18.45	11	50	10.78	49.02
18.25- 18.35	4	39	3.92	38.24
18.15- 18.25	4	35	3.92	34.31
18.05- 18.15	5	31	4.90	30.39
17.95- 18.05	4	26	3.92	25.49
17.85- 17.95	3	22	2.94	21.57
17.75- 17.85	1	19	.98	18.63
17.65- 17.75	0	18	0.00	17.65
17.55- 17.65	3	18	2.94	17.65
17.45- 17.55	3	15	2.94	14.71
17.35- 17.45	4	12	3.92	11.76
17.25- 17.35	0	8	0.00	7.84
17.15- 17.25	1	8	.98	7.84
17.05- 17.15	2	7	1.96	6.86
16.95- 17.05	0	5	0.00	4.90
16.85- 16.95	1	5	.98	4.90
16.75- 16.85	1	4	.98	3.92
16.65- 16.75	1	3	.98	2.94
16.55- 16.65	1	2	.98	1.96
16.45- 16.55	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

25H MINIMUM FRONTAL BR

RANGES	FRQ	CUMF	FRQ%	CUMF%
12.65- 12.75	1	102	.98	100.00
12.55- 12.65	0	101	0.00	99.02
12.45- 12.55	2	101	1.96	99.02
12.35- 12.45	2	99	1.96	97.06
12.25- 12.35	3	97	2.94	95.10
12.15- 12.25	3	94	2.94	92.16
12.05- 12.15	6	91	5.88	89.22
11.95- 12.05	5	85	4.90	83.33
11.85- 11.95	2	80	1.96	78.43
11.75- 11.85	2	78	1.96	76.47
11.65- 11.75	2	76	1.96	74.51
11.55- 11.65	6	74	5.88	72.55
11.45- 11.55	6	68	5.88	66.67
11.35- 11.45	3	62	2.94	60.78
11.25- 11.35	5	59	4.90	57.84
11.15- 11.25	3	54	2.94	52.94
11.05- 11.15	1	51	.98	50.00
10.95- 11.05	7	50	6.86	49.02
10.85- 10.95	3	43	2.94	42.16
10.75- 10.85	5	40	4.90	39.22
10.65- 10.75	7	35	6.86	34.31
10.55- 10.65	1	28	.98	27.45
10.45- 10.55	4	27	3.92	26.47
10.35- 10.45	4	23	3.92	22.55
10.25- 10.35	1	19	.98	18.63
10.15- 10.25	4	18	3.92	17.65
10.05- 10.15	4	14	3.92	13.73
9.95- 10.05	4	10	3.92	9.80
9.85- 9.95	1	6	.98	5.88
9.75- 9.85	1	5	.98	4.90
9.65- 9.75	0	4	0.00	3.92
9.55- 9.65	1	4	.98	3.92
9.45- 9.55	2	3	1.96	2.94
9.35- 9.45	0	1	0.00	.98
9.25- 9.35	0	1	0.00	.98
9.15- 9.25	1	1	.98	.98

26H FACE B/BIZYGOMATIC

RANGES	FRQ	CUMF	FRQ%	CUMF%
14.75- 14.85	1	102	.98	100.00
14.65- 14.75	2	101	1.96	99.02
14.55- 14.65	1	99	.98	97.06
14.45- 14.55	8	98	7.84	96.08
14.35- 14.45	1	90	.98	88.24
14.25- 14.35	4	89	3.92	87.25
14.15- 14.25	5	85	4.90	83.33
14.05- 14.15	6	80	5.88	78.43
13.95- 14.05	12	74	11.76	72.55
13.85- 13.95	9	62	8.82	60.78
13.75- 13.85	7	53	6.86	51.96
13.65- 13.75	8	46	7.84	45.10
13.55- 13.65	4	38	3.92	37.25
13.45- 13.55	7	34	6.86	33.33
13.35- 13.45	6	27	5.88	26.47
13.25- 13.35	4	21	3.92	20.59
13.15- 13.25	3	17	2.94	16.67
13.05- 13.15	4	14	3.92	13.73
12.95- 13.05	1	10	.98	9.80
12.85- 12.95	1	9	.98	8.82
12.75- 12.85	2	8	1.96	7.84
12.65- 12.75	2	6	1.96	5.88
12.55- 12.65	3	4	2.94	3.92
12.45- 12.55	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

27H BIOCULAR BREADTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
11.35-	11.45	1	102	.98	100.00
11.25-	11.35	0	101	0.00	99.02
11.15-	11.25	1	101	.98	99.02
11.05-	11.15	1	100	.98	98.04
10.95-	11.05	0	99	0.00	97.06
10.85-	10.95	4	99	3.92	97.06
10.75-	10.85	5	95	4.90	93.14
10.65-	10.75	1	90	.98	88.24
10.55-	10.65	6	89	5.88	87.25
10.45-	10.55	5	83	4.90	81.37
10.35-	10.45	6	78	5.88	76.47
10.25-	10.35	8	72	7.84	70.59
10.15-	10.25	10	64	9.80	62.75
10.05-	10.15	11	54	10.78	52.94
9.95-	10.05	7	43	6.86	42.16
9.85-	9.95	11	36	10.78	35.29
9.75-	9.85	8	25	7.84	24.51
9.65-	9.75	2	17	1.96	16.67
9.55-	9.65	3	15	2.94	14.71
9.45-	9.55	2	12	1.96	11.76
9.35-	9.45	1	10	.98	9.80
9.25-	9.35	1	9	.98	8.82
9.15-	9.25	4	8	3.92	7.84
9.05-	9.15	3	4	2.94	3.92
8.95-	9.05	0	1	0.00	.98
8.85-	8.95	0	1	0.00	.98
8.75-	8.85	0	1	0.00	.98
8.65-	8.75	1	1	.98	.98

28H INTERPUPILLARY DIS

RANGES		FRQ	CUMF	FRQ%	CUMF%
7.25-	7.35	1	102	.98	100.00
7.15-	7.25	0	101	0.00	99.02
7.05-	7.15	1	101	.98	99.02
6.95-	7.05	0	100	0.00	98.04
6.85-	6.95	0	100	0.00	98.04
6.75-	6.85	2	100	1.96	98.04
6.65-	6.75	1	98	.98	96.08
6.55-	6.65	1	97	.98	95.10
6.45-	6.55	4	96	3.92	94.12
6.35-	6.45	7	92	6.86	90.20
6.25-	6.35	6	85	5.88	83.33
6.15-	6.25	10	79	9.80	77.45
6.05-	6.15	6	69	5.88	67.65
5.95-	6.05	8	63	7.84	61.76
5.85-	5.95	9	55	8.82	53.92
5.75-	5.85	7	46	6.86	45.10
5.65-	5.75	6	39	5.88	38.24
5.55-	5.65	5	33	4.90	32.35
5.45-	5.55	11	28	10.78	27.45
5.35-	5.45	3	17	2.94	16.67
5.25-	5.35	6	14	5.88	13.73
5.15-	5.25	4	8	3.92	7.84
5.05-	5.15	1	4	.98	3.92
4.95-	5.05	0	3	0.00	2.94
4.85-	4.95	0	3	0.00	2.94
4.75-	4.85	1	3	.98	2.94
4.65-	4.75	2	2	1.96	1.96

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

29H NOSE LENGTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
5.75-	5.85	3	102	2.94	100.00
5.65-	5.75	2	99	1.96	97.06
5.55-	5.65	1	97	.98	95.10
5.45-	5.55	4	96	3.92	94.12
5.35-	5.45	7	92	6.86	90.20
5.25-	5.35	9	85	8.82	83.33
5.15-	5.25	3	76	2.94	74.51
5.05-	5.15	14	73	13.73	71.57
4.95-	5.05	7	59	6.86	57.84
4.85-	4.95	8	52	7.84	50.98
4.75-	4.85	12	44	11.76	43.14
4.65-	4.75	14	32	13.73	31.37
4.55-	4.65	7	18	6.86	17.65
4.45-	4.55	5	11	4.90	10.78
4.35-	4.45	4	6	3.92	5.88
4.25-	4.35	1	2	.98	1.96
4.15-	4.25	1	1	.98	.98

30H NOSE BREADTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
4.75-	4.85	2	102	1.96	100.00
4.65-	4.75	2	100	1.96	98.04
4.55-	4.65	0	98	0.00	96.08
4.45-	4.55	4	98	3.92	96.08
4.35-	4.45	4	94	3.92	92.16
4.25-	4.35	6	90	5.88	88.24
4.15-	4.25	3	84	2.94	82.35
4.05-	4.15	9	81	8.82	79.41
3.95-	4.05	4	72	3.92	70.59
3.85-	3.95	3	68	2.94	66.67
3.75-	3.85	7	65	6.86	63.73
3.65-	3.75	7	58	6.86	56.86
3.55-	3.65	6	51	5.88	50.00
3.45-	3.55	10	45	9.80	44.12
3.35-	3.45	7	35	6.86	34.31
3.25-	3.35	12	28	11.76	27.45
3.15-	3.25	5	16	4.90	15.69
3.05-	3.15	7	11	6.86	10.78
2.95-	3.05	2	4	1.96	3.92
2.85-	2.95	1	2	.98	1.96
2.75-	2.85	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

31H MOUTH BRTH/SMILING

RANGES		FRQ	CUMF	FRQ%	CUMF%
8.05-	8.15	1	102	.98	100.00
7.95-	8.05	2	101	1.96	99.02
7.85-	7.95	1	99	.98	97.06
7.75-	7.85	1	98	.98	96.08
7.65-	7.75	2	97	1.96	95.10
7.55-	7.65	2	95	1.96	93.14
7.45-	7.55	0	93	0.00	91.18
7.35-	7.45	3	93	2.94	91.18
7.25-	7.35	3	90	2.94	88.24
7.15-	7.25	5	87	4.90	85.29
7.05-	7.15	3	82	2.94	80.39
6.95-	7.05	5	79	4.90	77.45
6.85-	6.95	5	74	4.90	72.55
6.75-	6.85	3	69	2.94	67.65
6.65-	6.75	3	66	2.94	64.71
6.55-	6.65	5	63	4.90	61.76
6.45-	6.55	4	58	3.92	56.86
6.35-	6.45	8	54	7.84	52.94
6.25-	6.35	5	46	4.90	45.10
6.15-	6.25	4	41	3.92	40.20
6.05-	6.15	5	37	4.90	36.27
5.95-	6.05	4	32	3.92	31.37
5.85-	5.95	7	28	6.86	27.45
5.75-	5.85	2	21	1.96	20.59
5.65-	5.75	7	19	6.86	18.63
5.55-	5.65	2	12	1.96	11.76
5.45-	5.55	2	10	1.96	9.80
5.35-	5.45	2	8	1.96	7.84
5.25-	5.35	3	6	2.94	5.88
5.15-	5.25	2	3	1.96	2.94
5.05-	5.15	1	1	.98	.98

32H EAR LENGTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
7.15-	7.25	2	102	1.96	100.00
7.05-	7.15	3	100	2.94	98.04
6.95-	7.05	1	97	.98	95.10
6.85-	6.95	2	96	1.96	94.12
6.75-	6.85	2	94	1.96	92.16
6.65-	6.75	4	92	3.92	90.20
6.55-	6.65	6	88	5.88	86.27
6.45-	6.55	7	82	6.86	80.39
6.35-	6.45	10	75	9.80	73.53
6.25-	6.35	11	65	10.78	63.73
6.15-	6.25	14	54	13.73	52.94
6.05-	6.15	12	40	11.76	39.22
5.95-	6.05	5	28	4.90	27.45
5.85-	5.95	4	23	3.92	22.55
5.75-	5.85	4	19	3.92	18.63
5.65-	5.75	5	15	4.90	14.71
5.55-	5.65	3	10	2.94	9.80
5.45-	5.55	2	7	1.96	6.86
5.35-	5.45	2	5	1.96	4.90
5.25-	5.35	0	3	0.00	2.94
5.15-	5.25	0	3	0.00	2.94
5.05-	5.15	2	3	1.96	2.94
4.95-	5.05	0	1	0.00	.98
4.85-	4.95	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

33H EAR BREADTH

RANGES		FRQ	CUMF	FRQ%	CUMF%
5.25-	5.35	1	102	.98	100.00
5.15-	5.25	1	101	.98	99.02
5.05-	5.15	5	100	4.90	98.04
4.95-	5.05	0	95	0.00	93.14
4.85-	4.95	1	95	.98	93.14
4.75-	4.85	6	94	5.88	92.16
4.65-	4.75	3	88	2.94	86.27
4.55-	4.65	5	85	4.90	83.33
4.45-	4.55	10	80	9.80	78.43
4.35-	4.45	13	70	12.75	68.63
4.25-	4.35	18	57	17.65	55.88
4.15-	4.25	12	39	11.76	38.24
4.05-	4.15	11	27	10.78	26.47
3.95-	4.05	4	16	3.92	15.69
3.85-	3.95	3	12	2.94	11.76
3.75-	3.85	2	9	1.96	8.82
3.65-	3.75	4	7	3.92	6.86
3.55-	3.65	1	3	.98	2.94
3.45-	3.55	1	2	.98	1.96
3.35-	3.45	1	1	.98	.98

34H BIAURICULAR BR

RANGES		FRQ	CUMF	FRQ%	CUMF%
20.05-	20.15	1	102	.98	100.00
19.95-	20.05	1	101	.98	99.02
19.85-	19.95	1	100	.98	98.04
19.75-	19.85	0	99	0.00	97.06
19.65-	19.75	1	99	.98	97.06
19.55-	19.65	1	98	.98	96.08
19.45-	19.55	0	97	0.00	95.10
19.35-	19.45	0	97	0.00	95.10
19.25-	19.35	0	97	0.00	95.10
19.15-	19.25	1	97	.98	95.10
19.05-	19.15	1	96	.98	94.12
18.95-	19.05	6	95	5.88	93.14
18.85-	18.95	0	89	0.00	87.25
18.75-	18.85	2	89	1.96	87.25
18.65-	18.75	4	87	3.92	85.29
18.55-	18.65	2	83	1.96	81.37
18.45-	18.55	6	81	5.88	79.41
18.35-	18.45	3	75	2.94	73.53
18.25-	18.35	3	72	2.94	70.59
18.15-	18.25	6	69	5.88	67.65
18.05-	18.15	2	63	1.96	61.76
17.95-	18.05	4	61	3.92	59.80
17.85-	17.95	2	57	1.96	55.88
17.75-	17.85	7	55	6.86	53.92
17.65-	17.75	6	48	5.88	47.06
17.55-	17.65	3	42	2.94	41.18
17.45-	17.55	8	39	7.84	38.24
17.35-	17.45	4	31	3.92	30.39
17.25-	17.35	3	27	2.94	26.47
17.15-	17.25	4	24	3.92	23.53
17.05-	17.15	3	20	2.94	19.61
16.95-	17.05	4	17	3.92	16.67
16.85-	16.95	1	13	.98	12.75
16.75-	16.85	2	12	1.96	11.76
16.65-	16.75	2	10	1.96	9.80
16.55-	16.65	2	8	1.96	7.84
16.45-	16.55	2	6	1.96	5.88
16.35-	16.45	0	4	0.00	3.92
16.25-	16.35	1	4	.98	3.92
16.15-	16.25	1	3	.98	2.94
16.05-	16.15	0	2	0.00	1.96
15.95-	16.05	1	2	.98	1.96
15.85-	15.95	0	1	0.00	.98
15.75-	15.85	0	1	0.00	.98
15.65-	15.75	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASURLMENTS

54C HEAD CIRCUMFERENCE

RANGES	FRQ	CUMF	FRQ%	CUMF%
59.95- 60.15	1	102	.98	100.00
59.75- 59.95	0	101	0.00	99.02
59.55- 59.75	0	101	0.00	99.02
59.35- 59.55	1	101	.98	99.02
59.15- 59.35	0	100	0.00	98.04
58.95- 59.15	0	100	0.00	98.04
58.75- 58.95	2	100	1.96	98.04
58.55- 58.75	0	98	0.00	96.08
58.35- 58.55	2	98	1.96	96.08
58.15- 58.35	3	96	2.94	94.12
57.95- 58.15	1	93	.98	91.18
57.75- 57.95	2	92	1.96	90.20
57.55- 57.75	4	90	3.92	88.24
57.35- 57.55	3	86	2.94	84.31
57.15- 57.35	2	83	1.96	81.37
56.95- 57.15	2	81	1.96	79.41
56.75- 56.95	3	79	2.94	77.45
56.55- 56.75	5	76	4.90	74.51
56.35- 56.55	6	71	5.88	69.61
56.15- 56.35	4	65	3.92	63.73
55.95- 56.15	7	61	6.86	59.80
55.75- 55.95	3	54	2.94	52.94
55.55- 55.75	6	51	5.88	50.00
55.35- 55.55	8	45	7.84	44.12
55.15- 55.35	6	37	5.88	36.27
54.95- 55.15	3	31	2.94	30.39
54.75- 54.95	4	28	3.92	27.45
54.55- 54.75	5	24	4.90	23.53
54.35- 54.55	3	19	2.94	18.63
54.15- 54.35	5	16	4.90	15.69
53.95- 54.15	3	11	2.94	10.78
53.75- 53.95	0	8	0.00	7.84
53.55- 53.75	0	8	0.00	7.84
53.35- 53.55	0	8	0.00	7.84
53.15- 53.35	3	8	2.94	7.84
52.95- 53.15	2	5	1.96	4.90
52.75- 52.95	0	3	0.00	2.94
52.55- 52.75	1	3	.98	2.94
52.35- 52.55	1	2	.98	1.96
52.15- 52.35	1	1	.98	.98

55C HEAD BREADTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
15.85- 15.95	1	102	.98	100.00
15.75- 15.85	1	101	.98	99.02
15.65- 15.75	6	100	5.88	98.04
15.55- 15.65	7	94	6.86	92.16
15.45- 15.55	6	87	5.88	85.29
15.35- 15.45	4	81	3.92	79.41
15.25- 15.35	6	77	5.88	75.49
15.15- 15.25	9	71	8.82	69.61
15.05- 15.15	9	62	8.82	60.78
14.95- 15.05	7	53	6.86	51.96
14.85- 14.95	6	46	5.88	45.10
14.75- 14.85	6	40	5.88	39.22
14.65- 14.75	8	34	7.84	33.33
14.55- 14.65	5	26	4.90	25.49
14.45- 14.55	4	21	3.92	20.59
14.35- 14.45	4	17	3.92	16.67
14.25- 14.35	2	13	1.96	12.75
14.15- 14.25	3	11	2.94	10.78
14.05- 14.15	6	8	5.88	7.84
13.95- 14.05	1	2	.98	1.96
13.85- 13.95	1	1	.98	.98

FREQUENCY TABLES FOR HEAD AND FACE MEASUREMENTS

56C HEAD LENGTH

RANGES	FRQ	CUMF	FRQ%	CUMF%
21.25- 21.35	1	102	.98	100.00
21.15- 21.25	0	101	0.00	99.02
21.05- 21.15	0	101	0.00	99.02
20.95- 21.05	1	101	.98	99.02
20.85- 20.95	1	100	.98	98.04
20.75- 20.85	2	99	1.96	97.06
20.65- 20.75	1	97	.98	95.10
20.55- 20.65	2	96	1.96	94.12
20.45- 20.55	0	94	0.00	92.16
20.35- 20.45	4	94	3.92	92.16
20.25- 20.35	3	90	2.94	88.24
20.15- 20.25	1	87	.98	85.29
20.05- 20.15	3	86	2.94	84.31
19.95- 20.05	2	83	1.96	81.37
19.85- 19.95	3	81	2.94	79.41
19.75- 19.85	3	78	2.94	76.47
19.65- 19.75	4	75	3.92	73.53
19.55- 19.65	8	71	7.84	69.61
19.45- 19.55	7	63	6.86	61.76
19.35- 19.45	9	56	8.82	54.90
19.25- 19.35	11	47	10.78	46.08
19.15- 19.25	11	36	10.78	35.29
19.05- 19.15	7	25	6.86	24.51
18.95- 19.05	5	18	4.90	17.65
18.85- 18.95	1	13	.98	12.75
18.75- 18.85	3	12	2.94	11.76
18.65- 18.75	1	9	.98	8.82
18.55- 18.65	1	8	.98	7.84
18.45- 18.55	0	7	0.00	6.86
18.35- 18.45	1	7	.98	6.86
18.25- 18.35	2	6	1.96	5.88
18.15- 18.25	0	4	0.00	3.92
18.05- 18.15	3	4	2.94	3.92
17.95- 18.05	0	1	0.00	.98
17.85- 17.95	0	1	0.00	.98
17.75- 17.85	0	1	0.00	.98
17.65- 17.75	0	1	0.00	.98
17.55- 17.65	1	1	.98	.98

B-4. FREQUENCY TABLES FOR THE STATIC STRENGTH SUBSERIES (IN POUNDS)

1S STRNGTH/2H 38CM M1

RANGES	FRQ	CUMF	FRQ%	CUMF%
344.75-349.75	1	102	.98	100.00
339.75-344.75	0	101	0.00	99.02
334.75-339.75	0	101	0.00	99.02
329.75-334.75	0	101	0.00	99.02
324.75-329.75	1	101	.98	99.02
319.75-324.75	0	100	0.00	98.04
314.75-319.75	1	100	.98	98.04
309.75-314.75	0	99	0.00	97.06
304.75-309.75	2	99	1.96	97.06
299.75-304.75	2	97	1.96	95.10
294.75-299.75	1	95	.98	93.14
289.75-294.75	2	94	1.96	92.16
284.75-289.75	1	92	.98	90.20
279.75-284.75	1	91	.98	89.22
274.75-279.75	3	90	2.94	88.24
269.75-274.75	4	87	3.92	85.29
264.75-269.75	2	83	1.96	81.37
259.75-264.75	2	81	1.96	79.41
254.75-259.75	6	79	5.88	77.45
249.75-254.75	6	73	5.88	71.57
244.75-249.75	3	67	2.94	65.69
239.75-244.75	2	64	1.96	62.75
234.75-239.75	5	62	4.90	60.78
229.75-234.75	4	57	3.92	55.88
224.75-229.75	2	53	1.96	51.96
219.75-224.75	3	51	2.94	50.00
214.75-219.75	5	48	4.90	47.06
209.75-214.75	5	43	4.90	42.16
204.75-209.75	2	38	1.96	37.25
199.75-204.75	3	36	2.94	35.29
194.75-199.75	5	33	4.90	32.35
189.75-194.75	4	28	3.92	27.45
184.75-189.75	1	24	.98	23.53
179.75-184.75	6	23	5.88	22.55
174.75-179.75	2	17	1.96	16.67
169.75-174.75	3	15	2.94	14.71
164.75-169.75	0	12	0.00	11.76
159.75-164.75	4	12	3.92	11.76
154.75-159.75	3	8	2.94	7.84
149.75-154.75	2	5	1.96	4.90
144.75-149.75	2	3	1.96	2.94
139.75-144.75	1	1	.98	.98

2S STRNGTH/2H 38CM M2

RANGES	FRQ	CUMF	FRQ%	CUMF%
339.75-344.75	1	102	.98	100.00
334.75-339.75	0	101	0.00	99.02
329.75-334.75	0	101	0.00	99.02
324.75-329.75	0	101	0.00	99.02
319.75-324.75	3	101	2.94	99.02
314.75-319.75	0	98	0.00	96.08
309.75-314.75	1	98	.98	96.08
304.75-309.75	0	97	0.00	95.10
299.75-304.75	2	97	1.96	95.10
294.75-299.75	2	95	1.96	93.14
289.75-294.75	1	93	.98	91.18
284.75-289.75	0	92	0.00	90.20
279.75-284.75	1	92	.98	90.20
274.75-279.75	2	91	1.96	89.22
269.75-274.75	2	89	1.96	87.25
264.75-269.75	3	87	2.94	85.29
259.75-264.75	5	84	4.90	82.35
254.75-259.75	1	79	.98	77.45
249.75-254.75	6	78	7.84	76.47
244.75-249.75	2	70	1.96	68.63
239.75-244.75	9	68	8.82	66.67
234.75-239.75	2	59	1.96	57.84
229.75-234.75	3	57	2.94	55.88
224.75-229.75	4	54	3.92	52.94
219.75-224.75	4	50	3.92	49.02
214.75-219.75	6	46	5.88	45.10
209.75-214.75	5	40	4.90	39.22
204.75-209.75	5	35	4.90	34.31
199.75-204.75	4	30	3.92	29.41
194.75-199.75	3	26	2.94	25.49
189.75-194.75	5	23	4.90	22.55
184.75-189.75	3	18	2.94	17.65
179.75-184.75	0	15	0.00	14.71
174.75-179.75	6	15	5.88	14.71
169.75-174.75	0	9	0.00	8.82
164.75-169.75	1	9	.98	8.82
159.75-164.75	5	8	4.90	7.84
154.75-159.75	1	3	.98	2.94
149.75-154.75	1	2	.98	1.96
144.75-149.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

3S STRNGTH/2H 38CM P1

RANGES	FRQ	CUMF	FRQ%	CUMF%
354.75-359.75	1	102	.98	100.00
349.75-354.75	0	101	0.00	99.02
344.75-349.75	1	101	.98	99.02
339.75-344.75	0	100	0.00	98.04
334.75-339.75	0	100	0.00	98.04
329.75-334.75	0	100	0.00	98.04
324.75-329.75	4	100	3.92	98.04
319.75-324.75	0	96	0.00	94.12
314.75-319.75	2	96	1.96	94.12
309.75-314.75	1	94	.98	92.16
304.75-309.75	5	93	4.90	91.18
299.75-304.75	0	88	0.00	86.27
294.75-299.75	4	88	3.92	86.27
289.75-294.75	1	84	.98	82.35
284.75-289.75	1	83	.98	81.37
279.75-284.75	5	82	4.90	80.39
274.75-279.75	2	77	1.96	75.49
269.75-274.75	3	75	2.94	73.53
264.75-269.75	4	72	3.92	70.59
259.75-264.75	5	68	4.90	66.67
254.75-259.75	6	63	5.88	61.76
249.75-254.75	2	57	1.96	55.88
244.75-249.75	5	55	4.90	53.92
239.75-244.75	1	50	.98	49.02
234.75-239.75	4	49	3.92	48.04
229.75-234.75	2	45	1.96	44.12
224.75-229.75	4	43	3.92	42.16
219.75-224.75	2	39	1.96	38.24
214.75-219.75	4	37	3.92	36.27
209.75-214.75	8	33	7.84	32.35
204.75-209.75	4	25	3.92	24.51
199.75-204.75	2	21	1.96	20.59
194.75-199.75	5	19	4.90	18.63
189.75-194.75	4	14	3.92	13.73
184.75-189.75	1	10	.98	9.80
179.75-184.75	2	9	1.96	8.82
174.75-179.75	2	7	1.96	6.86
169.75-174.75	1	5	.98	4.90
164.75-169.75	1	4	.98	3.92
159.75-164.75	1	3	.98	2.94
154.75-159.75	2	2	1.96	1.96

4S STRNGTH/2H 38CM P2

RANGES	FRQ	CUMF	FRQ%	CUMF%
354.75-359.75	1	102	.98	100.00
349.75-354.75	0	101	0.00	99.02
344.75-349.75	1	101	.98	99.02
339.75-344.75	2	100	1.96	98.04
334.75-339.75	0	98	0.00	96.08
329.75-334.75	1	98	.98	96.08
324.75-329.75	1	97	.98	95.10
319.75-324.75	0	96	0.00	94.12
314.75-319.75	1	96	.98	94.12
309.75-314.75	2	95	1.96	93.14
304.75-309.75	0	93	0.00	91.18
299.75-304.75	3	93	2.94	91.18
294.75-299.75	1	90	.98	88.24
289.75-294.75	3	89	2.94	87.25
284.75-289.75	1	86	.98	84.31
279.75-284.75	2	85	1.96	83.33
274.75-279.75	4	83	3.92	81.37
269.75-274.75	4	79	3.92	77.45
264.75-269.75	9	75	8.82	73.53
259.75-264.75	4	66	3.92	64.71
254.75-259.75	11	62	10.78	60.78
249.75-254.75	3	51	2.94	50.00
244.75-249.75	5	48	4.90	47.06
239.75-244.75	1	43	.98	42.16
234.75-239.75	8	42	7.84	41.18
229.75-234.75	2	34	1.96	33.33
224.75-229.75	6	32	5.88	31.37
219.75-224.75	3	26	2.94	25.49
214.75-219.75	2	23	1.96	22.55
209.75-214.75	4	21	3.92	20.59
204.75-209.75	3	17	2.94	16.67
199.75-204.75	4	14	3.92	13.73
194.75-199.75	4	10	3.92	9.80
189.75-194.75	2	6	1.96	5.88
184.75-189.75	0	4	0.00	3.92
179.75-184.75	1	4	.98	3.92
174.75-179.75	1	3	.98	2.94
169.75-174.75	1	2	.98	1.96
164.75-169.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

5S STRNGTH/2H 50CM M1

RANGES	FRQ	CUMF	FRQ%	CUMF%
319.75-324.75	2	102	1.96	100.00
314.75-319.75	1	100	.98	98.04
309.75-314.75	0	99	0.00	97.06
304.75-309.75	2	99	1.96	97.06
299.75-304.75	1	97	.98	95.10
294.75-299.75	1	96	.98	94.12
289.75-294.75	1	95	.98	93.14
284.75-289.75	1	94	.98	92.16
279.75-284.75	1	93	.98	91.18
274.75-279.75	1	92	.98	90.20
269.75-274.75	1	91	.98	89.22
264.75-269.75	4	90	3.92	88.24
259.75-264.75	2	86	1.96	84.31
254.75-259.75	3	84	2.94	82.35
249.75-254.75	2	81	1.96	79.41
244.75-249.75	5	79	4.90	77.45
239.75-244.75	6	74	5.88	72.55
234.75-239.75	9	68	8.82	66.67
229.75-234.75	2	59	1.96	57.84
224.75-229.75	6	57	5.88	55.88
219.75-224.75	3	51	2.94	50.00
214.75-219.75	6	48	5.88	47.06
209.75-214.75	5	42	4.90	41.18
204.75-209.75	3	37	2.94	36.27
199.75-204.75	3	34	2.94	33.33
194.75-199.75	6	31	5.88	30.39
189.75-194.75	5	25	4.90	24.51
184.75-189.75	3	20	2.94	19.61
179.75-184.75	3	17	2.94	16.67
174.75-179.75	3	14	2.94	13.73
169.75-174.75	3	11	2.94	10.78
164.75-169.75	1	8	.98	7.84
159.75-164.75	3	7	2.94	6.86
154.75-159.75	2	4	1.96	3.92
149.75-154.75	1	2	.98	1.96
144.75-149.75	1	1	.98	.98

6S STRNGTH/2H 50CM M2

RANGES	FRQ	CUMF	FRQ%	CUMF%
334.75-339.75	1	102	.98	100.00
329.75-334.75	0	101	0.00	99.02
324.75-329.75	2	101	1.96	99.02
319.75-324.75	0	99	0.00	97.06
314.75-319.75	1	99	.98	97.06
309.75-314.75	0	98	0.00	96.08
304.75-309.75	2	98	1.96	96.08
299.75-304.75	1	96	.98	94.12
294.75-299.75	0	95	0.00	93.14
289.75-294.75	0	95	0.00	93.14
284.75-289.75	2	95	1.96	93.14
279.75-284.75	0	93	0.00	91.18
274.75-279.75	3	93	2.94	91.18
269.75-274.75	3	90	2.94	88.24
264.75-269.75	2	87	1.96	85.29
259.75-264.75	1	85	.98	83.33
254.75-259.75	3	84	2.94	82.35
249.75-254.75	5	81	4.90	79.41
244.75-249.75	4	76	3.92	74.51
239.75-244.75	8	72	7.84	70.59
234.75-239.75	5	64	4.90	62.75
229.75-234.75	2	59	1.96	57.84
224.75-229.75	6	57	5.88	55.88
219.75-224.75	4	51	3.92	50.00
214.75-219.75	6	47	5.88	46.08
209.75-214.75	6	41	5.88	40.20
204.75-209.75	5	35	4.90	34.31
199.75-204.75	6	30	5.88	29.41
194.75-199.75	3	24	2.94	23.53
189.75-194.75	1	21	.98	20.59
184.75-189.75	5	20	4.90	19.61
179.75-184.75	3	15	2.94	14.71
174.75-179.75	3	12	2.94	11.76
169.75-174.75	3	9	2.94	8.82
164.75-169.75	3	6	2.94	5.88
159.75-164.75	2	3	1.96	2.94
154.75-159.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

7S STRNGTH/2H 50CM P1

RANGES	FRQ	CUMF	FRQ%	CUMF%
359.75-364.75	1	102	.98	100.00
354.75-359.75	0	101	0.00	99.02
349.75-354.75	0	101	0.00	99.02
344.75-349.75	0	101	0.00	99.02
339.75-344.75	4	101	3.92	99.02
334.75-339.75	0	97	0.00	95.10
329.75-334.75	0	97	0.00	95.10
324.75-329.75	2	97	1.96	95.10
319.75-324.75	1	95	.98	93.14
314.75-319.75	0	94	0.00	92.16
309.75-314.75	0	94	0.00	92.16
304.75-309.75	1	94	.98	92.16
299.75-304.75	4	93	3.92	91.18
294.75-299.75	2	89	1.96	87.25
289.75-294.75	2	87	1.96	85.29
284.75-289.75	2	85	1.96	83.33
279.75-284.75	0	83	0.00	81.37
274.75-279.75	4	83	3.92	81.37
269.75-274.75	2	79	1.96	77.45
264.75-269.75	6	77	5.88	75.49
259.75-264.75	5	71	4.90	69.61
254.75-259.75	6	66	5.88	64.71
249.75-254.75	6	60	5.88	58.82
244.75-249.75	5	54	4.90	52.94
239.75-244.75	3	49	2.94	48.04
234.75-239.75	5	46	4.90	45.10
229.75-234.75	5	41	4.90	40.20
224.75-229.75	4	36	3.92	35.29
219.75-224.75	1	32	.98	31.37
214.75-219.75	3	31	2.94	30.39
209.75-214.75	7	28	6.86	27.45
204.75-209.75	7	21	6.86	20.59
199.75-204.75	3	14	2.94	13.73
194.75-199.75	0	11	0.00	10.78
189.75-194.75	4	11	3.92	10.78
184.75-189.75	0	7	0.00	6.86
179.75-184.75	1	7	.98	6.86
174.75-179.75	2	6	1.96	5.88
169.75-174.75	2	4	1.96	3.92
164.75-169.75	1	2	.98	1.96
159.75-164.75	0	1	0.00	.98
154.75-159.75	1	1	.98	.98

8S STRNGTH/2H 50CM P2

RANGES	FRQ	CUMF	FRQ%	CUMF%
364.75-369.75	1	102	.98	100.00
359.75-364.75	0	101	0.00	99.02
354.75-359.75	0	101	0.00	99.02
349.75-354.75	1	101	.98	99.02
344.75-349.75	0	100	0.00	98.04
339.75-344.75	0	100	0.00	98.04
334.75-339.75	1	100	.98	98.04
329.75-334.75	2	99	1.96	97.06
324.75-329.75	0	97	0.00	95.10
319.75-324.75	1	97	.98	95.10
314.75-319.75	2	96	1.96	94.12
309.75-314.75	2	94	1.96	92.16
304.75-309.75	0	92	0.00	90.20
299.75-304.75	2	92	1.96	90.20
294.75-299.75	4	90	3.92	88.24
289.75-294.75	2	86	1.96	84.31
284.75-289.75	0	84	0.00	82.35
279.75-284.75	5	84	4.90	82.35
274.75-279.75	1	79	.98	77.45
269.75-274.75	0	78	0.00	76.47
264.75-269.75	7	78	6.86	76.47
259.75-264.75	6	71	5.88	69.61
254.75-259.75	5	65	4.90	63.73
249.75-254.75	2	60	1.96	58.82
244.75-249.75	10	58	9.80	56.86
239.75-244.75	4	48	3.92	47.06
234.75-239.75	6	44	5.88	43.14
229.75-234.75	1	38	.98	37.25
224.75-229.75	3	37	2.94	36.27
219.75-224.75	6	34	5.88	33.33
214.75-219.75	10	28	9.80	27.45
209.75-214.75	1	18	.98	17.65
204.75-209.75	2	17	1.96	16.67
199.75-204.75	0	15	0.00	14.71
194.75-199.75	5	15	4.90	14.71
189.75-194.75	3	10	2.94	9.80
184.75-189.75	2	7	1.96	6.86
179.75-184.75	2	5	1.96	4.90
174.75-179.75	2	3	1.96	2.94
169.75-174.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

9S STRNGTH/2H 100CM M1

RANGES	FRQ	CUMF	FRQ%	CUMF%
244.75-249.75	1	102	.98	100.00
239.75-244.75	0	101	0.00	99.02
234.75-239.75	0	101	0.00	99.02
229.75-234.75	0	101	0.00	99.02
224.75-229.75	0	101	0.00	99.02
219.75-224.75	0	101	0.00	99.02
214.75-219.75	0	101	0.00	99.02
209.75-214.75	4	101	3.92	99.02
204.75-209.75	1	97	.98	95.10
199.75-204.75	1	96	.98	94.12
194.75-199.75	4	95	3.92	93.14
189.75-194.75	2	91	1.96	89.22
184.75-189.75	1	89	.98	87.25
179.75-184.75	3	88	2.94	86.27
174.75-179.75	3	85	2.94	83.33
169.75-174.75	3	82	2.94	80.39
164.75-169.75	8	79	7.84	77.45
159.75-164.75	1	71	.98	69.61
154.75-159.75	5	70	4.90	68.63
149.75-154.75	6	65	5.88	63.73
144.75-149.75	3	59	2.94	57.84
139.75-144.75	3	56	2.94	54.90
134.75-139.75	8	53	7.84	51.96
129.75-134.75	13	45	12.75	44.12
124.75-129.75	9	32	8.82	31.37
119.75-124.75	4	23	3.92	22.55
114.75-119.75	4	19	3.92	18.63
109.75-114.75	3	15	2.94	14.71
104.75-109.75	2	12	1.96	11.76
99.75-104.75	5	10	4.90	9.80
94.75- 99.75	3	5	2.94	4.90
89.75- 94.75	0	2	0.00	1.96
84.75- 89.75	2	2	1.96	1.96

10S STRNGTH/2H 100CM M2

RANGES	FRQ	CUMF	FRQ%	CUMF%
244.75-249.75	1	102	.98	100.00
239.75-244.75	0	101	0.00	99.02
234.75-239.75	1	101	.98	99.02
229.75-234.75	0	100	0.00	98.04
224.75-229.75	0	100	0.00	98.04
219.75-224.75	0	100	0.00	98.04
214.75-219.75	1	100	.98	98.04
209.75-214.75	1	99	.98	97.06
204.75-209.75	1	98	.98	96.08
199.75-204.75	2	97	1.96	95.10
194.75-199.75	3	95	2.94	93.14
189.75-194.75	1	92	.98	90.20
184.75-189.75	1	91	.98	89.22
179.75-184.75	1	90	.98	88.24
174.75-179.75	4	89	3.92	87.25
169.75-174.75	7	85	6.86	83.33
164.75-169.75	4	78	3.92	76.47
159.75-164.75	4	74	3.92	72.55
154.75-159.75	5	70	4.90	68.63
149.75-154.75	6	65	5.88	63.73
144.75-149.75	4	59	3.92	57.84
139.75-144.75	6	55	5.88	53.92
134.75-139.75	4	49	3.92	48.04
129.75-134.75	9	45	8.82	44.12
124.75-129.75	4	36	3.92	35.29
119.75-124.75	8	32	7.84	31.37
114.75-119.75	5	24	4.90	23.53
109.75-114.75	9	19	8.82	18.63
104.75-109.75	3	10	2.94	9.80
99.75-104.75	0	7	0.00	6.86
94.75- 99.75	3	7	2.94	6.86
89.75- 94.75	1	4	.98	3.92
84.75- 89.75	0	3	0.00	2.94
79.75- 84.75	3	3	2.94	2.94

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

11S STRNGTH/2H 100CM P1

RANGES	FRQ	CUMF	FRQ%	CUMF%
254.75-259.75	1	102	.98	100.00
249.75-254.75	0	101	0.00	99.02
244.75-249.75	0	101	0.00	99.02
239.75-244.75	0	101	0.00	99.02
234.75-239.75	0	101	0.00	99.02
229.75-234.75	1	101	.98	99.02
224.75-229.75	0	100	0.00	98.04
219.75-224.75	4	100	3.92	98.04
214.75-219.75	1	96	.98	94.12
209.75-214.75	3	95	2.94	93.14
204.75-209.75	1	92	.98	90.20
199.75-204.75	2	91	1.96	89.22
194.75-199.75	3	89	2.94	87.25
189.75-194.75	4	86	3.92	84.31
184.75-189.75	5	82	4.90	80.39
179.75-184.75	4	77	3.92	75.49
174.75-179.75	2	73	1.96	71.57
169.75-174.75	6	71	5.88	69.61
164.75-169.75	6	65	5.88	63.73
159.75-164.75	3	59	2.94	57.84
154.75-159.75	2	56	1.96	54.90
149.75-154.75	5	54	4.90	52.94
144.75-149.75	8	49	7.84	48.04
139.75-144.75	9	41	8.82	40.20
134.75-139.75	6	32	5.88	31.37
129.75-134.75	6	26	5.88	25.49
124.75-129.75	7	20	6.86	19.61
119.75-124.75	4	13	3.92	12.75
114.75-119.75	3	9	2.94	8.82
109.75-114.75	3	6	2.94	5.88
104.75-109.75	1	3	.98	2.94
99.75-104.75	1	2	.98	1.96
94.75- 99.75	0	1	0.00	.98
89.75- 94.75	1	1	.98	.98

12S STRNGTH/2H 100CM P2

RANGES	FRQ	CUMF	FRQ%	CUMF%
254.75-259.75	1	102	.98	100.00
249.75-254.75	1	101	.98	99.02
244.75-249.75	0	100	0.00	98.04
239.75-244.75	0	100	0.00	98.04
234.75-239.75	1	100	.98	98.04
229.75-234.75	0	99	0.00	97.06
224.75-229.75	1	99	.98	97.06
219.75-224.75	0	98	0.00	96.08
214.75-219.75	1	98	.98	96.08
209.75-214.75	6	97	5.88	95.10
204.75-209.75	2	91	1.96	89.22
199.75-204.75	3	89	2.94	87.25
194.75-199.75	1	86	.98	84.31
189.75-194.75	2	85	1.96	83.33
184.75-189.75	6	83	5.88	81.37
179.75-184.75	4	77	3.92	75.49
174.75-179.75	6	73	5.88	71.57
169.75-174.75	2	67	1.96	65.69
164.75-169.75	3	65	2.94	63.73
159.75-164.75	4	62	3.92	60.78
154.75-159.75	9	58	8.82	56.86
149.75-154.75	5	49	4.90	48.04
144.75-149.75	3	44	2.94	43.14
139.75-144.75	3	41	2.94	40.20
134.75-139.75	10	38	9.80	37.25
129.75-134.75	6	28	5.88	27.45
124.75-129.75	7	22	6.86	21.57
119.75-124.75	5	15	4.90	14.71
114.75-119.75	2	10	1.96	9.80
109.75-114.75	2	8	1.96	7.84
104.75-109.75	2	6	1.96	5.88
99.75-104.75	1	4	.98	3.92
94.75- 99.75	1	3	.98	2.94
89.75- 94.75	2	2	1.96	1.96

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

13S STRNGTH/2H 150CM M1

RANGES	FRQ	CUMF	FRQ%	CUMF%
259.75-264.75	1	102	.98	100.00
254.75-259.75	0	101	0.00	99.02
249.75-254.75	0	101	0.00	99.02
244.75-249.75	0	101	0.00	99.02
239.75-244.75	0	101	0.00	99.02
234.75-239.75	1	101	.98	99.02
229.75-234.75	2	100	1.96	98.04
224.75-229.75	0	98	0.00	96.08
219.75-224.75	3	98	2.94	96.08
214.75-219.75	1	95	.98	93.14
209.75-214.75	0	94	0.00	92.16
204.75-209.75	0	94	0.00	92.16
199.75-204.75	4	94	3.92	92.16
194.75-199.75	0	90	0.00	88.24
189.75-194.75	3	90	2.94	88.24
184.75-189.75	4	87	3.92	85.29
179.75-184.75	3	83	2.94	81.37
174.75-179.75	5	80	4.90	78.43
169.75-174.75	3	75	2.94	73.53
164.75-169.75	1	72	.98	70.59
159.75-164.75	3	71	2.94	69.61
154.75-159.75	4	68	3.92	66.67
149.75-154.75	7	64	6.86	62.75
144.75-149.75	5	57	4.90	55.88
139.75-144.75	6	52	5.88	50.98
134.75-139.75	5	46	4.90	45.10
129.75-134.75	4	41	3.92	40.20
124.75-129.75	3	37	2.94	36.27
119.75-124.75	8	34	7.84	33.33
114.75-119.75	3	26	2.94	25.49
109.75-114.75	5	23	4.90	22.55
104.75-109.75	5	18	4.90	17.65
99.75-104.75	5	13	4.90	12.75
94.75- 99.75	0	8	0.00	7.84
89.75- 94.75	3	8	2.94	7.84
84.75- 89.75	2	5	1.96	4.90
79.75- 84.75	3	3	2.94	2.94

14S STRNGTH/2H 150CM M2

RANGES	FRQ	CUMF	FRQ%	CUMF%
319.75-327.75	1	102	.98	100.00
311.75-319.75	0	101	0.00	99.02
303.75-311.75	0	101	0.00	99.02
295.75-303.75	0	101	0.00	99.02
287.75-295.75	0	101	0.00	99.02
279.75-287.75	0	101	0.00	99.02
271.75-279.75	0	101	0.00	99.02
263.75-271.75	0	101	0.00	99.02
255.75-263.75	1	101	.98	99.02
247.75-255.75	0	100	0.00	98.04
239.75-247.75	1	100	.98	98.04
231.75-239.75	2	99	1.96	97.06
223.75-231.75	1	97	.98	95.10
215.75-223.75	2	96	1.96	94.12
207.75-215.75	2	94	1.96	92.16
199.75-207.75	2	92	1.96	90.20
191.75-199.75	5	90	4.90	88.24
183.75-191.75	5	85	4.90	83.33
175.75-183.75	8	80	7.84	78.43
167.75-175.75	5	72	4.90	70.59
159.75-167.75	6	67	5.88	65.69
151.75-159.75	6	61	5.88	59.80
143.75-151.75	5	55	4.90	53.92
135.75-143.75	8	50	7.84	49.02
127.75-135.75	7	42	6.86	41.18
119.75-127.75	7	35	6.86	34.31
111.75-119.75	8	28	7.84	27.45
103.75-111.75	8	20	7.84	19.61
95.75-103.75	4	12	3.92	11.76
87.75- 95.75	5	8	4.90	7.84
79.75- 87.75	1	3	.98	2.94
71.75- 79.75	2	2	1.96	1.96

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

15S STRNGTH/2H 150CM P1

RANGES	FRQ	CUMF	FRQ%	CUMF%
314.75-319.75	1	102	.98	100.00
309.75-314.75	0	101	0.00	99.02
304.75-309.75	0	101	0.00	99.02
299.75-304.75	0	101	0.00	99.02
294.75-299.75	0	101	0.00	99.02
289.75-294.75	0	101	0.00	99.02
284.75-289.75	0	101	0.00	99.02
279.75-284.75	0	101	0.00	99.02
274.75-279.75	0	101	0.00	99.02
269.75-274.75	0	101	0.00	99.02
264.75-269.75	0	101	0.00	99.02
259.75-264.75	1	101	.98	99.02
254.75-259.75	3	100	2.94	98.04
249.75-254.75	0	97	0.00	95.10
244.75-249.75	0	97	0.00	95.10
239.75-244.75	0	97	0.00	95.10
234.75-239.75	0	97	0.00	95.10
229.75-234.75	1	97	.98	95.10
224.75-229.75	1	96	.98	94.12
219.75-224.75	3	95	2.94	93.14
214.75-219.75	2	92	1.96	90.20
209.75-214.75	2	90	1.96	88.24
204.75-209.75	2	88	1.96	86.27
199.75-204.75	3	86	2.94	84.31
194.75-199.75	3	83	2.94	81.37
189.75-194.75	5	80	4.90	78.43
184.75-189.75	4	75	3.92	73.53
179.75-184.75	6	71	5.88	69.61
174.75-179.75	1	65	.98	63.73
169.75-174.75	1	64	.98	62.75
164.75-169.75	5	63	4.90	61.76
159.75-164.75	3	58	2.94	56.86
154.75-159.75	8	55	7.84	53.92
149.75-154.75	7	47	6.86	46.08
144.75-149.75	5	40	4.90	39.22
139.75-144.75	6	35	5.88	34.31
134.75-139.75	0	29	0.00	28.43
129.75-134.75	5	29	4.90	28.43
124.75-129.75	6	24	5.88	23.53
119.75-124.75	3	18	2.94	17.65
114.75-119.75	6	15	5.88	14.71
109.75-114.75	1	9	.98	8.82
104.75-109.75	4	8	3.92	7.84
99.75-104.75	1	4	.98	3.92
94.75- 99.75	1	3	.98	2.94
89.75- 94.75	2	2	1.96	1.96

16S STRNGTH/2H 150CM P2

RANGES	FRQ	CUMF	FRQ%	CUMF%
359.75-367.75	1	102	.98	100.00
351.75-359.75	0	101	0.00	99.02
343.75-351.75	0	101	0.00	99.02
335.75-343.75	0	101	0.00	99.02
327.75-335.75	0	101	0.00	99.02
319.75-327.75	0	101	0.00	99.02
311.75-319.75	0	101	0.00	99.02
303.75-311.75	0	101	0.00	99.02
295.75-303.75	0	101	0.00	99.02
287.75-295.75	0	101	0.00	99.02
279.75-287.75	0	101	0.00	99.02
271.75-279.75	1	101	.98	99.02
263.75-271.75	1	100	.98	98.04
255.75-263.75	1	99	.98	97.06
247.75-255.75	1	98	.98	96.08
239.75-247.75	1	97	.98	95.10
231.75-239.75	3	96	2.94	94.12
223.75-231.75	1	93	.98	91.18
215.75-223.75	2	92	1.96	90.20
207.75-215.75	4	90	3.92	88.24
199.75-207.75	6	86	5.88	84.31
191.75-199.75	5	80	4.90	78.43
183.75-191.75	3	75	2.94	73.53
175.75-183.75	9	72	8.82	70.59
167.75-175.75	7	63	6.86	61.76
159.75-167.75	6	56	5.88	54.90
151.75-159.75	7	50	6.86	49.02
143.75-151.75	12	43	11.76	42.16
135.75-143.75	6	31	5.88	30.39
127.75-135.75	4	25	3.92	24.51
119.75-127.75	8	21	7.84	20.59
111.75-119.75	5	13	4.90	12.75
103.75-111.75	4	8	3.92	7.84
95.75-103.75	2	4	1.96	3.92
87.75- 95.75	2	2	1.96	1.96

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

17S STRNGTH/1H 100CM M1

RANGES	FRQ	CUMF	FRQ%	CUMF%
173.75-176.75	1	102	.98	100.00
170.75-173.75	1	101	.98	99.02
167.75-170.75	0	100	0.00	98.04
164.75-167.75	1	100	.98	98.04
161.75-164.75	1	99	.98	97.06
158.75-161.75	1	98	.98	96.08
155.75-158.75	0	97	0.00	95.10
152.75-155.75	0	97	0.00	95.10
149.75-152.75	0	97	0.00	95.10
146.75-149.75	0	97	0.00	95.10
143.75-146.75	0	97	0.00	95.10
140.75-143.75	0	97	0.00	95.10
137.75-140.75	3	97	2.94	95.10
134.75-137.75	0	94	0.00	92.16
131.75-134.75	1	94	.98	92.16
128.75-131.75	3	93	2.94	91.18
125.75-128.75	0	90	0.00	88.24
122.75-125.75	0	90	0.00	88.24
119.75-122.75	0	90	0.00	88.24
116.75-119.75	1	90	.98	88.24
113.75-116.75	3	89	2.94	87.25
110.75-113.75	6	86	5.88	84.31
107.75-110.75	3	80	2.94	78.43
104.75-107.75	6	77	5.88	75.49
101.75-104.75	2	71	1.96	69.61
98.75-101.75	4	69	3.92	67.65
95.75- 98.75	6	65	5.88	63.73
92.75- 95.75	6	59	5.88	57.84
89.75- 92.75	3	53	2.94	51.96
86.75- 89.75	7	50	6.86	49.02
83.75- 86.75	3	43	2.94	42.16
80.75- 83.75	6	40	5.88	39.22
77.75- 80.75	2	34	1.96	33.33
74.75- 77.75	0	32	0.00	31.37
71.75- 74.75	3	32	2.94	31.37
68.75- 71.75	6	29	5.88	28.43
65.75- 68.75	5	23	4.90	22.55
62.75- 65.75	1	18	.98	17.65
59.75- 62.75	2	17	1.96	16.67
56.75- 59.75	4	15	3.92	14.71
53.75- 56.75	0	11	0.00	10.78
50.75- 53.75	4	11	3.92	10.78
47.75- 50.75	2	7	1.96	6.86
44.75- 47.75	3	5	2.94	4.90
41.75- 44.75	2	2	1.96	1.96

18S STRNGTH/1H 100CM M2

RANGES	FRQ	CUMF	FRQ%	CUMF%
173.75-176.75	1	102	.98	100.00
170.75-173.75	0	101	0.00	99.02
167.75-170.75	0	101	0.00	99.02
164.75-167.75	0	101	0.00	99.02
161.75-164.75	1	101	.98	99.02
158.75-161.75	0	100	0.00	98.04
155.75-158.75	0	100	0.00	98.04
152.75-155.75	1	100	.98	98.04
149.75-152.75	2	99	1.96	97.06
146.75-149.75	0	97	0.00	95.10
143.75-146.75	1	97	.98	95.10
140.75-143.75	1	96	.98	94.12
137.75-140.75	0	95	0.00	93.14
134.75-137.75	0	95	0.00	93.14
131.75-134.75	1	95	.98	93.14
128.75-131.75	0	94	0.00	92.16
125.75-128.75	2	94	1.96	92.16
122.75-125.75	2	92	1.96	90.20
119.75-122.75	2	90	1.96	88.24
116.75-119.75	3	88	2.94	86.27
113.75-116.75	5	85	4.90	83.33
110.75-113.75	5	80	4.90	78.43
107.75-110.75	4	75	3.92	73.53
104.75-107.75	4	71	3.92	69.61
101.75-104.75	4	67	3.92	65.69
98.75-101.75	5	63	4.90	61.76
95.75- 98.75	2	58	1.96	56.86
92.75- 95.75	6	56	5.88	54.90
89.75- 92.75	5	50	4.90	49.02
86.75- 89.75	1	45	.98	44.12
83.75- 86.75	5	44	4.90	43.14
80.75- 83.75	4	39	3.92	38.24
77.75- 80.75	1	35	.98	34.31
74.75- 77.75	7	34	6.86	33.33
71.75- 74.75	5	27	4.90	26.47
68.75- 71.75	3	22	2.94	21.57
65.75- 68.75	3	19	2.94	18.63
62.75- 65.75	1	16	.98	15.69
59.75- 62.75	1	15	.98	14.71
56.75- 59.75	2	14	1.96	13.73
53.75- 56.75	2	12	1.96	11.76
50.75- 53.75	4	10	3.92	9.80
47.75- 50.75	0	6	0.00	5.88
44.75- 47.75	3	6	2.94	5.88
41.75- 44.75	0	3	0.00	2.94
38.75- 41.75	3	3	2.94	2.94

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

19S STRNGTH/1H 100CM P1

RANGES	FRQ	CUMF	FRQ%	CUMF%
214.75-219.75	1	102	.98	100.00
209.75-214.75	0	101	0.00	99.02
204.75-209.75	0	101	0.00	99.02
199.75-204.75	0	101	0.00	99.02
194.75-199.75	0	101	0.00	99.02
189.75-194.75	0	101	0.00	99.02
184.75-189.75	1	101	.98	99.02
179.75-184.75	0	100	0.00	98.04
174.75-179.75	4	100	3.92	98.04
169.75-174.75	1	96	.98	94.12
164.75-169.75	1	95	.98	93.14
159.75-164.75	0	94	0.00	92.16
154.75-159.75	1	94	.98	92.16
149.75-154.75	0	93	0.00	91.18
144.75-149.75	2	93	1.96	91.18
139.75-144.75	0	91	0.00	89.22
134.75-139.75	1	91	.98	89.22
129.75-134.75	3	90	2.94	88.24
124.75-129.75	3	87	2.94	85.29
119.75-124.75	8	84	7.84	82.35
114.75-119.75	8	76	7.84	74.51
109.75-114.75	7	68	6.86	66.67
104.75-109.75	8	61	7.84	59.80
99.75-104.75	10	53	9.80	51.96
94.75- 99.75	5	43	4.90	42.16
89.75- 94.75	7	38	6.86	37.25
84.75- 89.75	4	31	3.92	30.39
79.75- 84.75	5	27	4.90	26.47
74.75- 79.75	5	22	4.90	21.57
69.75- 74.75	2	17	1.96	16.67
64.75- 69.75	2	15	1.96	14.71
59.75- 64.75	5	13	4.90	12.75
54.75- 59.75	4	8	3.92	7.84
49.75- 54.75	2	4	1.96	3.92
44.75- 49.75	1	2	.98	1.96
39.75- 44.75	1	1	.98	.98

20S STRNGTH/1H 100CM P2

RANGES	FRQ	CUMF	FRQ%	CUMF%
214.75-219.75	1	102	.98	100.00
209.75-214.75	0	101	0.00	99.02
204.75-209.75	0	101	0.00	99.02
199.75-204.75	0	101	0.00	99.02
194.75-199.75	0	101	0.00	99.02
189.75-194.75	0	101	0.00	99.02
184.75-189.75	1	101	.98	99.02
179.75-184.75	0	100	0.00	98.04
174.75-179.75	2	100	1.96	98.04
169.75-174.75	1	98	.98	96.08
164.75-169.75	0	97	0.00	95.10
159.75-164.75	1	97	.98	95.10
154.75-159.75	0	96	0.00	94.12
149.75-154.75	3	96	2.94	94.12
144.75-149.75	2	93	1.96	91.18
139.75-144.75	1	91	.98	89.22
134.75-139.75	0	90	0.00	88.24
129.75-134.75	7	90	6.86	88.24
124.75-129.75	7	83	6.86	81.37
119.75-124.75	11	76	10.78	74.51
114.75-119.75	6	65	5.88	63.73
109.75-114.75	6	59	5.88	57.84
104.75-109.75	5	53	4.90	51.96
99.75-104.75	5	48	4.90	47.06
94.75- 99.75	8	43	7.84	42.16
89.75- 94.75	9	35	8.82	34.31
84.75- 89.75	5	26	4.90	25.49
79.75- 84.75	4	21	3.92	20.59
74.75- 79.75	3	17	2.94	16.67
69.75- 74.75	2	14	1.96	13.73
64.75- 69.75	1	12	.98	11.76
59.75- 64.75	1	11	.98	10.78
54.75- 59.75	6	10	5.88	9.80
49.75- 54.75	2	4	1.96	3.92
44.75- 49.75	2	2	1.96	1.96

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

21S STRNGTH/1H 45CM M1 C

RANGES	FRQ	CUMF	FRQ%	CUMF%
161.75-164.75	1	102	.98	100.00
158.75-161.75	1	101	.98	99.02
155.75-158.75	1	100	.98	98.04
152.75-155.75	1	99	.98	97.06
149.75-152.75	1	98	.98	96.08
146.75-149.75	0	97	0.00	95.10
143.75-146.75	1	97	.98	95.10
140.75-143.75	6	96	5.88	94.12
137.75-140.75	1	90	.98	88.24
134.75-137.75	2	89	1.96	87.25
131.75-134.75	4	87	3.92	85.29
128.75-131.75	2	83	1.96	81.37
125.75-128.75	1	81	.98	79.41
122.75-125.75	3	80	2.94	78.43
119.75-122.75	3	77	2.94	75.49
116.75-119.75	3	74	2.94	72.55
113.75-116.75	2	71	1.96	69.61
110.75-113.75	7	69	6.86	67.65
107.75-110.75	7	62	6.86	60.78
104.75-107.75	3	55	2.94	53.92
101.75-104.75	2	52	1.96	50.98
98.75-101.75	5	50	4.90	49.02
95.75- 98.75	0	45	0.00	44.12
92.75- 95.75	2	45	1.96	44.12
89.75- 92.75	5	43	4.90	42.16
86.75- 89.75	5	38	4.90	37.25
83.75- 86.75	4	33	3.92	32.35
80.75- 83.75	1	29	.98	28.43
77.75- 80.75	1	28	.98	27.45
74.75- 77.75	2	27	1.96	26.47
71.75- 74.75	2	25	1.96	24.51
68.75- 71.75	1	23	.98	22.55
65.75- 68.75	1	22	.98	21.57
62.75- 65.75	6	21	5.88	20.59
59.75- 62.75	4	15	3.92	14.71
56.75- 59.75	2	11	1.96	10.78
53.75- 56.75	2	9	1.96	8.82
50.75- 53.75	1	7	.98	6.86
47.75- 50.75	0	6	0.00	5.88
44.75- 47.75	3	6	2.94	5.88
41.75- 44.75	2	3	1.96	2.94
38.75- 41.75	0	1	0.00	.98
35.75- 38.75	0	1	0.00	.98
32.75- 35.75	1	1	.98	.98

22S STRNGTH/1H 45CM M2 C

RANGES	FRQ	CUMF	FRQ%	CUMF%
164.75-167.75	1	102	.98	100.00
161.75-164.75	0	101	0.00	99.02
158.75-161.75	0	101	0.00	99.02
155.75-158.75	1	101	.98	99.02
152.75-155.75	3	100	2.94	98.04
149.75-152.75	1	97	.98	95.10
146.75-149.75	2	96	1.96	94.12
143.75-146.75	2	94	1.96	92.16
140.75-143.75	5	92	4.90	90.20
137.75-140.75	2	87	1.96	85.29
134.75-137.75	4	85	3.92	83.33
131.75-134.75	5	81	4.90	79.41
128.75-131.75	1	76	.98	74.51
125.75-128.75	4	75	3.92	73.53
122.75-125.75	3	71	2.94	69.61
119.75-122.75	2	68	1.96	66.67
116.75-119.75	1	66	.98	64.71
113.75-116.75	7	65	6.86	63.73
110.75-113.75	0	58	0.00	56.86
107.75-110.75	4	58	3.92	56.86
104.75-107.75	7	54	6.86	52.94
101.75-104.75	7	47	6.86	46.08
98.75-101.75	2	40	1.96	39.22
95.75- 98.75	1	38	.98	37.25
92.75- 95.75	3	37	2.94	36.27
89.75- 92.75	2	34	1.96	33.33
86.75- 89.75	3	32	2.94	31.37
83.75- 86.75	2	29	1.96	28.43
80.75- 83.75	0	27	0.00	26.47
77.75- 80.75	2	27	1.96	26.47
74.75- 77.75	4	25	3.92	24.51
71.75- 74.75	1	21	.98	20.59
68.75- 71.75	2	20	1.96	19.61
65.75- 68.75	0	18	0.00	17.65
62.75- 65.75	4	18	3.92	17.65
59.75- 62.75	2	14	1.96	13.73
56.75- 59.75	3	12	2.94	11.76
53.75- 56.75	3	9	2.94	8.82
50.75- 53.75	1	6	.98	5.88
47.75- 50.75	3	5	2.94	4.90
44.75- 47.75	0	2	0.00	1.96
41.75- 44.75	1	2	.98	1.96
38.75- 41.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

23S STRNGTH/1H 45CM P1 C

RANGES	FRQ	CUMF	FRQ%	CUMF%
173.75-176.75	2	102	1.96	100.00
170.75-173.75	0	100	0.00	98.04
167.75-170.75	1	100	.98	98.04
164.75-167.75	2	99	1.96	97.06
161.75-164.75	3	97	2.94	95.10
158.75-161.75	2	94	1.96	92.16
155.75-158.75	4	92	3.92	90.20
152.75-155.75	0	88	0.00	86.27
149.75-152.75	3	88	2.94	86.27
146.75-149.75	1	85	.98	83.33
143.75-146.75	4	84	3.92	82.35
140.75-143.75	2	80	1.96	78.43
137.75-140.75	3	78	2.94	76.47
134.75-137.75	3	75	2.94	73.53
131.75-134.75	1	72	.98	70.59
128.75-131.75	4	71	3.92	69.61
125.75-128.75	5	67	4.90	65.69
122.75-125.75	4	62	3.92	60.78
119.75-122.75	5	58	4.90	56.86
116.75-119.75	5	53	4.90	51.96
113.75-116.75	5	48	4.90	47.06
110.75-113.75	4	43	3.92	42.16
107.75-110.75	2	39	1.96	38.24
104.75-107.75	1	37	.98	36.27
101.75-104.75	3	36	2.94	35.29
98.75-101.75	1	33	.98	32.35
95.75- 98.75	4	32	3.92	31.37
92.75- 95.75	2	28	1.96	27.45
89.75- 92.75	1	26	.98	25.49
86.75- 89.75	0	25	0.00	24.51
83.75- 86.75	1	25	.98	24.51
80.75- 83.75	0	24	0.00	23.53
77.75- 80.75	4	24	3.92	23.53
74.75- 77.75	2	20	1.96	19.61
71.75- 74.75	3	18	2.94	17.65
68.75- 71.75	2	15	1.96	14.71
65.75- 68.75	4	13	3.92	12.75
62.75- 65.75	0	9	0.00	8.82
59.75- 62.75	4	9	3.92	8.82
56.75- 59.75	1	5	.98	4.90
53.75- 56.75	0	4	0.00	3.92
50.75- 53.75	2	4	1.96	3.92
47.75- 50.75	2	2	1.96	1.96

24S STRNGTH/1H 45CM P2 C

RANGES	FRQ	CUMF	FRQ%	CUMF%
179.75-182.75	1	102	.98	100.00
176.75-179.75	2	101	1.96	99.02
173.75-176.75	0	99	0.00	97.06
170.75-173.75	2	99	1.96	97.06
167.75-170.75	1	97	.98	95.10
164.75-167.75	3	96	2.94	94.12
161.75-164.75	0	93	0.00	91.18
158.75-161.75	2	93	1.96	91.18
155.75-158.75	2	91	1.96	89.22
152.75-155.75	3	89	2.94	87.25
149.75-152.75	3	86	2.94	84.31
146.75-149.75	4	83	3.92	81.37
143.75-146.75	3	79	2.94	77.45
140.75-143.75	3	76	2.94	74.51
137.75-140.75	3	73	2.94	71.57
134.75-137.75	1	70	.98	68.63
131.75-134.75	1	69	.98	67.65
128.75-131.75	5	68	4.90	66.67
125.75-128.75	3	63	2.94	61.76
122.75-125.75	5	60	4.90	58.82
119.75-122.75	4	55	3.92	53.92
116.75-119.75	3	51	2.94	50.00
113.75-116.75	3	48	2.94	47.06
110.75-113.75	5	45	4.90	44.12
107.75-110.75	4	40	3.92	39.22
104.75-107.75	2	36	1.96	35.29
101.75-104.75	2	34	1.96	33.33
98.75-101.75	1	32	.98	31.37
95.75- 98.75	1	31	.98	30.39
92.75- 95.75	4	30	3.92	29.41
89.75- 92.75	2	26	1.96	25.49
86.75- 89.75	1	24	.98	23.53
83.75- 86.75	3	23	2.94	22.55
80.75- 83.75	0	20	0.00	19.61
77.75- 80.75	3	20	2.94	19.61
74.75- 77.75	1	17	.98	16.67
71.75- 74.75	3	16	2.94	15.69
68.75- 71.75	3	13	2.94	12.75
65.75- 68.75	3	10	2.94	9.80
62.75- 65.75	1	7	.98	6.86
59.75- 62.75	2	6	1.96	5.88
56.75- 59.75	2	4	1.96	3.92
53.75- 56.75	1	2	.98	1.96
50.75- 53.75	0	1	0.00	.98
47.75- 50.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

25S STRNGTH/1H 45CM M1 S

RANGES	FRQ	CUMF	FRQ%	CUMF%
159.75-162.25	1	102	.98	100.00
157.25-159.75	0	101	0.00	99.02
154.75-157.25	0	101	0.00	99.02
152.25-154.75	0	101	0.00	99.02
149.75-152.25	1	101	.98	99.02
147.25-149.75	0	100	0.00	98.04
144.75-147.25	0	100	0.00	98.04
142.25-144.75	1	100	.98	98.04
139.75-142.25	0	99	0.00	97.06
137.25-139.75	0	99	0.00	97.06
134.75-137.25	1	99	.98	97.06
132.25-134.75	0	98	0.00	96.08
129.75-132.25	1	98	.98	96.08
127.25-129.75	0	97	0.00	95.10
124.75-127.25	4	97	3.92	95.10
122.25-124.75	1	93	.98	91.18
119.75-122.25	2	92	1.96	90.20
117.25-119.75	2	90	1.96	88.24
114.75-117.25	3	88	2.94	86.27
112.25-114.75	2	85	1.96	83.33
109.75-112.25	0	83	0.00	81.37
107.25-109.75	2	83	1.96	81.37
104.75-107.25	1	81	.98	79.41
102.25-104.75	6	80	5.88	78.43
99.75-102.25	3	74	2.94	72.55
97.25- 99.75	3	71	2.94	69.61
94.75- 97.25	2	68	1.96	66.67
92.25- 94.75	9	66	8.82	64.71
89.75- 92.25	3	57	2.94	55.88
87.25- 89.75	4	54	3.92	52.94
84.75- 87.25	6	50	5.88	49.02
82.25- 84.75	4	44	3.92	43.14
79.75- 82.25	1	40	.98	39.22
77.25- 79.75	0	39	0.00	38.24
74.75- 77.25	2	39	1.96	38.24
72.25- 74.75	1	37	.98	36.27
69.75- 72.25	3	36	2.94	35.29
67.25- 69.75	3	33	2.94	32.35
64.75- 67.25	4	30	3.92	29.41
62.25- 64.75	4	26	3.92	25.49
59.75- 62.25	4	22	3.92	21.57
57.25- 59.75	1	18	.98	17.65
54.75- 57.25	3	17	2.94	16.67
52.25- 54.75	3	14	2.94	13.73
49.75- 52.25	1	11	.98	10.78
47.25- 49.75	4	10	3.92	9.80
44.75- 47.25	1	6	.98	5.88
42.25- 44.75	5	5	4.90	4.90

26S STRNGTH/1H 45CM M2 S

RANGES	FRQ	CUMF	FRQ%	CUMF%
167.75-170.75	1	102	.98	100.00
164.75-167.75	0	101	0.00	99.02
161.75-164.75	0	101	0.00	99.02
158.75-161.75	0	101	0.00	99.02
155.75-158.75	0	101	0.00	99.02
152.75-155.75	0	101	0.00	99.02
149.75-152.75	0	101	0.00	99.02
146.75-149.75	0	101	0.00	99.02
143.75-146.75	0	101	0.00	99.02
140.75-143.75	1	101	.98	99.02
137.75-140.75	1	100	.98	98.04
134.75-137.75	3	99	2.94	97.06
131.75-134.75	4	96	3.92	94.12
128.75-131.75	1	92	.98	90.20
125.75-128.75	2	91	1.96	89.22
122.75-125.75	1	89	.98	87.25
119.75-122.75	3	88	2.94	86.27
116.75-119.75	1	85	.98	83.33
113.75-116.75	4	84	3.92	82.35
110.75-113.75	2	80	1.96	78.43
107.75-110.75	7	78	6.86	76.47
104.75-107.75	3	71	2.94	69.61
101.75-104.75	4	68	3.92	66.67
98.75-101.75	5	64	4.90	62.75
95.75- 98.75	2	59	1.96	57.84
92.75- 95.75	3	57	2.94	55.88
89.75- 92.75	9	54	8.82	52.94
86.75- 89.75	3	45	2.94	44.12
83.75- 86.75	2	42	1.96	41.18
80.75- 83.75	2	40	1.96	39.22
77.75- 80.75	4	38	3.92	37.25
74.75- 77.75	6	34	5.88	33.33
71.75- 74.75	5	28	4.90	27.45
68.75- 71.75	4	23	3.92	22.55
65.75- 68.75	4	19	3.92	18.63
62.75- 65.75	4	15	3.92	14.71
59.75- 62.75	3	11	2.94	10.78
56.75- 59.75	0	8	0.00	7.84
53.75- 56.75	3	8	2.94	7.84
50.75- 53.75	3	5	2.94	4.90
47.75- 50.75	1	2	.98	1.96
44.75- 47.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

27S STRNGTH/1H 45CM P1 S

RANGES	FRQ	CUMF	FRQ%	CUMF%
182.75-185.75	1	102	.98	100.00
179.75-182.75	0	101	0.00	99.02
176.75-179.75	0	101	0.00	99.02
173.75-176.75	0	101	0.00	99.02
170.75-173.75	0	101	0.00	99.02
167.75-170.75	0	101	0.00	99.02
164.75-167.75	0	101	0.00	99.02
161.75-164.75	2	101	1.96	99.02
158.75-161.75	0	99	0.00	97.06
155.75-158.75	0	99	0.00	97.06
152.75-155.75	0	99	0.00	97.06
149.75-152.75	1	99	.98	97.06
146.75-149.75	1	98	.98	96.08
143.75-146.75	2	97	1.96	95.10
140.75-143.75	1	95	.98	93.14
137.75-140.75	0	94	0.00	92.16
134.75-137.75	5	94	4.90	92.16
131.75-134.75	2	89	1.96	87.25
128.75-131.75	1	87	.98	85.29
125.75-128.75	4	86	3.92	84.31
122.75-125.75	3	82	2.94	80.39
119.75-122.75	3	79	2.94	77.45
116.75-119.75	2	76	1.96	74.51
113.75-116.75	5	74	4.90	72.55
110.75-113.75	3	69	2.94	67.65
107.75-110.75	5	66	4.90	64.71
104.75-107.75	2	61	1.96	59.80
101.75-104.75	7	59	6.86	57.84
98.75-101.75	6	52	5.88	50.98
95.75- 98.75	3	46	2.94	45.10
92.75- 95.75	1	43	.98	42.16
89.75- 92.75	5	42	4.90	41.18
86.75- 89.75	1	37	.98	36.27
83.75- 86.75	3	36	2.94	35.29
80.75- 83.75	3	33	2.94	32.35
77.75- 80.75	1	30	.98	29.41
74.75- 77.75	4	29	3.92	28.43
71.75- 74.75	6	25	5.88	24.51
68.75- 71.75	3	19	2.94	18.63
65.75- 68.75	0	16	0.00	15.69
62.75- 65.75	4	16	3.92	15.69
59.75- 62.75	1	12	.98	11.76
56.75- 59.75	3	11	2.94	10.78
53.75- 56.75	3	8	2.94	7.84
50.75- 53.75	4	5	3.92	4.90
47.75- 50.75	1	1	.98	.98

28S STRNGTH/1H 45CM P2 S

RANGES	FRQ	CUMF	FRQ%	CUMF%
194.75-197.75	1	102	.98	100.00
191.75-194.75	0	101	0.00	99.02
188.75-191.75	0	101	0.00	99.02
185.75-188.75	0	101	0.00	99.02
182.75-185.75	0	101	0.00	99.02
179.75-182.75	0	101	0.00	99.02
176.75-179.75	0	101	0.00	99.02
173.75-176.75	0	101	0.00	99.02
170.75-173.75	0	101	0.00	99.02
167.75-170.75	0	101	0.00	99.02
164.75-167.75	0	101	0.00	99.02
161.75-164.75	0	101	0.00	99.02
158.75-161.75	0	101	0.00	99.02
155.75-158.75	2	101	1.96	99.02
152.75-155.75	0	99	0.00	97.06
149.75-152.75	1	99	.98	97.06
146.75-149.75	2	98	1.96	96.08
143.75-146.75	1	96	.98	94.12
140.75-143.75	5	95	4.90	93.14
137.75-140.75	3	90	2.94	88.24
134.75-137.75	1	87	.98	85.29
131.75-134.75	2	86	1.96	84.31
128.75-131.75	2	84	1.96	82.35
125.75-128.75	1	82	.98	80.39
122.75-125.75	5	81	4.90	79.41
119.75-122.75	6	76	5.88	74.51
116.75-119.75	3	70	2.94	68.63
113.75-116.75	4	67	3.92	65.69
110.75-113.75	6	63	5.88	61.76
107.75-110.75	5	57	4.90	55.88
104.75-107.75	0	52	0.00	50.98
101.75-104.75	5	52	4.90	50.98
98.75-101.75	2	47	1.96	46.08
95.75- 98.75	6	45	5.88	44.12
92.75- 95.75	7	39	6.86	38.24
89.75- 92.75	1	32	.98	31.37
86.75- 89.75	2	31	1.96	30.39
83.75- 86.75	4	29	3.92	28.43
80.75- 83.75	3	25	2.94	24.51
77.75- 80.75	3	22	2.94	21.57
74.75- 77.75	7	19	6.86	18.63
71.75- 74.75	2	12	1.96	11.76
68.75- 71.75	2	10	1.96	9.80
65.75- 68.75	1	8	.98	7.84
62.75- 65.75	0	7	0.00	6.86
59.75- 62.75	4	7	3.92	6.86
56.75- 59.75	2	3	1.96	2.94
53.75- 56.75	0	1	0.00	.98
50.75- 53.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

29S STRNGTH/2H 38CM M1

RANGES	FRQ	CUMF	FRQ%	CUMF%
314.75-319.75	1	102	.98	100.00
309.75-314.75	0	101	0.00	99.02
304.75-309.75	0	101	0.00	99.02
299.75-304.75	1	101	.98	99.02
294.75-299.75	0	100	0.00	98.04
289.75-294.75	0	100	0.00	98.04
284.75-289.75	1	100	.98	98.04
279.75-284.75	0	99	0.00	97.06
274.75-279.75	1	99	.98	97.06
269.75-274.75	3	98	2.94	96.08
264.75-269.75	3	95	2.94	93.14
259.75-264.75	1	92	.98	90.20
254.75-259.75	2	91	1.96	89.22
249.75-254.75	1	89	.98	87.25
244.75-249.75	4	88	3.92	86.27
239.75-244.75	2	84	1.96	82.35
234.75-239.75	2	82	1.96	80.39
229.75-234.75	3	80	2.94	78.43
224.75-229.75	3	77	2.94	75.49
219.75-224.75	0	74	0.00	72.55
214.75-219.75	3	74	2.94	72.55
209.75-214.75	4	71	3.92	69.61
204.75-209.75	5	67	4.90	65.69
199.75-204.75	4	62	3.92	60.78
194.75-199.75	5	58	4.90	56.86
189.75-194.75	5	53	4.90	51.96
184.75-189.75	7	48	6.86	47.06
179.75-184.75	6	41	5.88	40.20
174.75-179.75	4	35	3.92	34.31
169.75-174.75	6	31	5.88	30.39
164.75-169.75	1	25	.98	24.51
159.75-164.75	3	24	2.94	23.53
154.75-159.75	3	21	2.94	20.59
149.75-154.75	2	18	1.96	17.65
144.75-149.75	3	16	2.94	15.69
139.75-144.75	3	13	2.94	12.75
134.75-139.75	5	10	4.90	9.80
129.75-134.75	1	5	.98	4.90
124.75-129.75	1	4	.98	3.92
119.75-124.75	0	3	0.00	2.94
114.75-119.75	0	3	0.00	2.94
109.75-114.75	2	3	1.96	2.94
104.75-109.75	0	1	0.00	.98
99.75-104.75	1	1	.98	.98

30S STRNGTH/2H 38CM M2

RANGES	FRQ	CUMF	FRQ%	CUMF%
319.75-324.75	1	102	.98	100.00
314.75-319.75	0	101	0.00	99.02
309.75-314.75	0	101	0.00	99.02
304.75-309.75	0	101	0.00	99.02
299.75-304.75	0	101	0.00	99.02
294.75-299.75	0	101	0.00	99.02
289.75-294.75	1	101	.98	99.02
284.75-289.75	0	100	0.00	98.04
279.75-284.75	0	100	0.00	98.04
274.75-279.75	1	100	.98	98.04
269.75-274.75	0	99	0.00	97.06
264.75-269.75	3	99	2.94	97.06
259.75-264.75	4	96	3.92	94.12
254.75-259.75	0	92	0.00	90.20
249.75-254.75	0	92	0.00	90.20
244.75-249.75	4	92	3.92	90.20
239.75-244.75	0	88	0.00	86.27
234.75-239.75	0	88	0.00	86.27
229.75-234.75	8	88	7.84	86.27
224.75-229.75	6	80	5.88	78.43
219.75-224.75	4	74	3.92	72.55
214.75-219.75	6	70	5.88	68.63
209.75-214.75	4	64	3.92	62.75
204.75-209.75	4	60	3.92	58.82
199.75-204.75	6	56	5.88	54.90
194.75-199.75	5	50	4.90	49.02
189.75-194.75	2	45	1.96	44.12
184.75-189.75	7	43	6.86	42.16
179.75-184.75	1	36	.98	35.29
174.75-179.75	7	35	6.86	34.31
169.75-174.75	3	28	2.94	27.45
164.75-169.75	3	25	2.94	24.51
159.75-164.75	2	22	1.96	21.57
154.75-159.75	5	20	4.90	19.61
149.75-154.75	5	15	4.90	14.71
144.75-149.75	2	10	1.96	9.80
139.75-144.75	2	8	1.96	7.84
134.75-139.75	2	6	1.96	5.88
129.75-134.75	1	4	.98	3.92
124.75-129.75	0	3	0.00	2.94
119.75-124.75	0	3	0.00	2.94
114.75-119.75	1	3	.98	2.94
109.75-114.75	0	2	0.00	1.96
104.75-109.75	2	2	1.96	1.96

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

31S STRNGTH/2H 38CM P1

RANGES	FRQ	CUMF	FRQ%	CUMF%
339.75-344.75	1	102	.98	100.00
334.75-339.75	1	101	.98	99.02
329.75-334.75	0	100	0.00	98.04
324.75-329.75	0	100	0.00	98.04
319.75-324.75	0	100	0.00	98.04
314.75-319.75	0	100	0.00	98.04
309.75-314.75	2	100	1.96	98.04
304.75-309.75	0	98	0.00	96.08
299.75-304.75	2	98	1.96	96.08
294.75-299.75	0	96	0.00	94.12
289.75-294.75	0	96	0.00	94.12
284.75-289.75	1	96	.98	94.12
279.75-284.75	2	95	1.96	93.14
274.75-279.75	3	93	2.94	91.18
269.75-274.75	2	90	1.96	88.24
264.75-269.75	0	88	0.00	86.27
259.75-264.75	2	88	1.96	86.27
254.75-259.75	4	86	3.92	84.31
249.75-254.75	3	82	2.94	80.39
244.75-249.75	3	79	2.94	77.45
239.75-244.75	3	76	2.94	74.51
234.75-239.75	2	73	1.96	71.57
229.75-234.75	3	71	2.94	69.61
224.75-229.75	6	68	5.88	66.67
219.75-224.75	0	62	0.00	60.78
214.75-219.75	8	62	7.84	60.78
209.75-214.75	4	54	3.92	52.94
204.75-209.75	4	50	3.92	49.02
199.75-204.75	3	46	2.94	45.10
194.75-199.75	11	43	10.78	42.16
189.75-194.75	5	32	4.90	31.37
184.75-189.75	5	27	4.90	26.47
179.75-184.75	3	22	2.94	21.57
174.75-179.75	2	19	1.96	18.63
169.75-174.75	2	17	1.96	16.67
164.75-169.75	5	15	4.90	14.71
159.75-164.75	3	10	2.94	9.80
154.75-159.75	0	7	0.00	6.86
149.75-154.75	1	7	.98	6.86
144.75-149.75	2	6	1.96	5.88
139.75-144.75	1	4	.98	3.92
134.75-139.75	0	3	0.00	2.94
129.75-134.75	1	3	.98	2.94
124.75-129.75	0	2	0.00	1.96
119.75-124.75	2	2	1.96	1.96

32S STRNGTH/2H 38CM P2

RANGES	FRQ	CUMF	FRQ%	CUMF%
334.75-339.75	1	102	.98	100.00
329.75-334.75	1	101	.98	99.02
324.75-329.75	0	100	0.00	98.04
319.75-324.75	0	100	0.00	98.04
314.75-319.75	0	100	0.00	98.04
309.75-314.75	0	100	0.00	98.04
304.75-309.75	0	100	0.00	98.04
299.75-304.75	1	100	.98	98.04
294.75-299.75	1	99	.98	97.06
289.75-294.75	2	98	1.96	96.08
284.75-289.75	0	96	0.00	94.12
279.75-284.75	3	96	2.94	94.12
274.75-279.75	2	93	1.96	91.18
269.75-274.75	2	91	1.96	89.22
264.75-269.75	2	89	1.96	87.25
259.75-264.75	0	87	0.00	85.29
254.75-259.75	3	87	2.94	85.29
249.75-254.75	4	84	3.92	82.35
244.75-249.75	5	80	4.90	78.43
239.75-244.75	3	75	2.94	73.53
234.75-239.75	5	72	4.90	70.59
229.75-234.75	6	67	5.88	65.69
224.75-229.75	6	61	5.88	59.80
219.75-224.75	2	55	1.96	53.92
214.75-219.75	6	53	5.88	51.96
209.75-214.75	3	47	2.94	46.08
204.75-209.75	5	44	4.90	43.14
199.75-204.75	6	39	5.88	38.24
194.75-199.75	2	33	1.96	32.35
189.75-194.75	8	31	7.84	30.39
184.75-189.75	7	23	6.86	22.55
179.75-184.75	2	16	1.96	15.69
174.75-179.75	1	14	.98	13.73
169.75-174.75	3	13	2.94	12.75
164.75-169.75	3	10	2.94	9.80
159.75-164.75	2	7	1.96	6.86
154.75-159.75	2	5	1.96	4.90
149.75-154.75	0	3	0.00	2.94
144.75-149.75	0	3	0.00	2.94
139.75-144.75	0	3	0.00	2.94
134.75-139.75	0	3	0.00	2.94
129.75-134.75	2	3	1.96	2.94
124.75-129.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

33S STRNGTH/2H 50CM M1

RANGES	FRQ	CUMF	FRQ%	CUMF%
294.75-299.75	1	102	.98	100.00
289.75-294.75	0	101	0.00	99.02
284.75-289.75	0	101	0.00	99.02
279.75-284.75	0	101	0.00	99.02
274.75-279.75	1	101	.98	99.02
269.75-274.75	0	100	0.00	98.04
264.75-269.75	1	100	.98	98.04
259.75-264.75	1	99	.98	97.06
254.75-259.75	0	98	0.00	96.08
249.75-254.75	0	98	0.00	96.08
244.75-249.75	0	98	0.00	96.08
239.75-244.75	0	98	0.00	96.08
234.75-239.75	1	98	.98	96.08
229.75-234.75	2	97	1.96	95.10
224.75-229.75	0	95	0.00	93.14
219.75-224.75	1	95	.98	93.14
214.75-219.75	1	94	.98	92.16
209.75-214.75	1	93	.98	91.18
204.75-209.75	4	92	3.92	90.20
199.75-204.75	10	88	9.80	86.27
194.75-199.75	3	78	2.94	76.47
189.75-194.75	2	75	1.96	73.53
184.75-189.75	5	73	4.90	71.57
179.75-184.75	2	68	1.96	66.67
174.75-179.75	7	66	6.86	64.71
169.75-174.75	6	59	5.88	57.84
164.75-169.75	9	53	8.82	51.96
159.75-164.75	7	44	6.86	43.14
154.75-159.75	5	37	4.90	36.27
149.75-154.75	5	32	4.90	31.37
144.75-149.75	4	27	3.92	26.47
139.75-144.75	4	23	3.92	22.55
134.75-139.75	4	19	3.92	18.63
129.75-134.75	2	15	1.96	14.71
124.75-129.75	2	13	1.96	12.75
119.75-124.75	3	11	2.94	10.78
114.75-119.75	1	8	.98	7.84
109.75-114.75	1	7	.98	6.86
104.75-109.75	0	6	0.00	5.88
99.75-104.75	1	6	.98	5.88
94.75- 99.75	4	5	3.92	4.90
89.75- 94.75	0	1	0.00	.98
84.75- 89.75	0	1	0.00	.98
79.75- 84.75	1	1	.98	.98

34S STRNGTH/2H 50CM M2

RANGES	FRQ	CUMF	FRQ%	CUMF%
254.75-259.75	2	102	1.96	100.00
249.75-254.75	2	100	1.96	98.04
244.75-249.75	1	98	.98	96.08
239.75-244.75	0	97	0.00	95.10
234.75-239.75	0	97	0.00	95.10
229.75-234.75	1	97	.98	95.10
224.75-229.75	3	96	2.94	94.12
219.75-224.75	3	93	2.94	91.18
214.75-219.75	0	90	0.00	88.24
209.75-214.75	2	90	1.96	88.24
204.75-209.75	5	88	4.90	86.27
199.75-204.75	2	83	1.96	81.37
194.75-199.75	4	81	3.92	79.41
189.75-194.75	4	77	3.92	75.49
184.75-189.75	6	73	5.88	71.57
179.75-184.75	2	67	1.96	65.69
174.75-179.75	4	65	3.92	63.73
169.75-174.75	6	61	5.88	59.80
164.75-169.75	8	55	7.84	53.92
159.75-164.75	8	47	7.84	46.08
154.75-159.75	5	39	4.90	38.24
149.75-154.75	9	34	8.82	33.33
144.75-149.75	2	25	1.96	24.51
139.75-144.75	4	23	3.92	22.55
134.75-139.75	4	19	3.92	18.63
129.75-134.75	4	15	3.92	14.71
124.75-129.75	3	11	2.94	10.78
119.75-124.75	2	8	1.96	7.84
114.75-119.75	0	6	0.00	5.88
109.75-114.75	3	6	2.94	5.88
104.75-109.75	1	3	.98	2.94
99.75-104.75	1	2	.98	1.96
94.75- 99.75	0	1	0.00	.98
89.75- 94.75	1	1	.98	.98

FREQUENCY TABLES FOR MEN'S STATIC STRENGTH MEASUREMENTS (IN POUNDS)

35S STRNGTH/2H 50CM P1

RANGES	FRQ	CUMF	FRQ%	CUMF%
319.75-324.75	1	102	.98	100.00
314.75-319.75	0	101	0.00	99.02
309.75-314.75	1	101	.98	99.02
304.75-309.75	0	100	0.00	98.04
299.75-304.75	1	100	.98	98.04
294.75-299.75	0	99	0.00	97.06
289.75-294.75	0	99	0.00	97.06
284.75-289.75	1	99	.98	97.06
279.75-284.75	0	98	0.00	96.08
274.75-279.75	0	98	0.00	96.08
269.75-274.75	0	98	0.00	96.08
264.75-269.75	0	98	0.00	96.08
259.75-264.75	0	98	0.00	96.08
254.75-259.75	1	98	.98	96.08
249.75-254.75	1	97	.98	95.10
244.75-249.75	1	96	.98	94.12
239.75-244.75	1	95	.98	93.14
234.75-239.75	3	94	2.94	92.16
229.75-234.75	4	91	3.92	89.22
224.75-229.75	2	87	1.96	85.29
219.75-224.75	3	85	2.94	83.33
214.75-219.75	5	82	4.90	80.39
209.75-214.75	5	77	4.90	75.49
204.75-209.75	3	72	2.94	70.59
199.75-204.75	2	69	1.96	67.65
194.75-199.75	4	67	3.92	65.69
189.75-194.75	3	63	2.94	61.76
184.75-189.75	8	60	7.84	58.82
179.75-184.75	3	52	2.94	50.98
174.75-179.75	7	49	6.86	48.04
169.75-174.75	9	42	8.82	41.18
164.75-169.75	6	33	5.88	32.35
159.75-164.75	5	27	4.90	26.47
154.75-159.75	4	22	3.92	21.57
149.75-154.75	2	18	1.96	17.65
144.75-149.75	3	16	2.94	15.69
139.75-144.75	4	13	3.92	12.75
134.75-139.75	2	9	1.96	8.82
129.75-134.75	0	7	0.00	6.86
124.75-129.75	0	7	0.00	6.86
119.75-124.75	2	7	1.96	6.86
114.75-119.75	3	5	2.94	4.90
109.75-114.75	1	2	.98	1.96
104.75-109.75	0	1	0.00	.98
99.75-104.75	0	1	0.00	.98
94.75- 99.75	0	1	0.00	.98
89.75- 94.75	1	1	.98	.98

36S STRNGTH/2H 50CM P2

RANGES	FRQ	CUMF	FRQ%	CUMF%
294.75-299.75	1	102	.98	100.00
289.75-294.75	2	101	1.96	99.02
284.75-289.75	0	99	0.00	97.06
279.75-284.75	0	99	0.00	97.06
274.75-279.75	1	99	.98	97.06
269.75-274.75	3	98	2.94	96.08
264.75-269.75	0	95	0.00	93.14
259.75-264.75	0	95	0.00	93.14
254.75-259.75	0	95	0.00	93.14
249.75-254.75	3	95	2.94	93.14
244.75-249.75	2	92	1.96	90.20
239.75-244.75	2	90	1.96	88.24
234.75-239.75	1	88	.98	86.27
229.75-234.75	2	87	1.96	85.29
224.75-229.75	1	85	.98	83.33
219.75-224.75	3	84	2.94	82.35
214.75-219.75	6	81	5.88	79.41
209.75-214.75	3	75	2.94	73.53
204.75-209.75	5	72	4.90	70.59
199.75-204.75	5	67	4.90	65.69
194.75-199.75	3	62	2.94	60.78
189.75-194.75	2	59	1.96	57.84
184.75-189.75	8	57	7.84	55.88
179.75-184.75	6	49	5.88	48.04
174.75-179.75	7	43	6.86	42.16
169.75-174.75	5	36	4.90	35.29
164.75-169.75	7	31	6.86	30.39
159.75-164.75	2	24	1.96	23.53
154.75-159.75	6	22	5.88	21.57
149.75-154.75	2	16	1.96	15.69
144.75-149.75	3	14	2.94	13.73
139.75-144.75	2	11	1.96	10.78
134.75-139.75	3	9	2.94	8.82
129.75-134.75	1	6	.98	5.88
124.75-129.75	1	5	.98	4.90
119.75-124.75	3	4	2.94	3.92
114.75-119.75	1	1	.98	.98

APPENDIX C

XVAL COMPUTER PRINTOUTS

The following pages contain computer printouts for the core series and each of the four subseries for the XVAL (=eXtreme VALue) program. These printouts represent the data after the editing had been completed.

These printouts provide, for each variable, the following values:

a. the ten smallest values and the associated subject numbers;

b. the ten largest values and the associated subject numbers;

c. the mean value based on all the data;

d. the standard deviation based on all the data;

e. the coefficient of variation;

f. β_1, the measure of symmetry;

g. β_2, the measure of kurtosis;

h. the mean value based on all the data except the 20 extreme values (those listed here): "(N-20)-AVG EST";

i. the standard deviation estimated on the basis of all the data except the 20 extreme values (a truncated normal distribution is assumed): "(N-20)-S.D. EST";

j. the difference between the two mean values (items c and h) expressed as a percent of the estimated standard deviation (item i);

k. the difference between the two standard deviation values (items d and i) similarly expressed;

l. the number of non-zero values.

The data values are in the units in which they were measured with a few exceptions. Most values are in millimeters. The static strength values are in tenths of pounds. The weights were measured to the quarter-pound and punched as tenths of pounds.

The XVAL printout for the static strength subseries covers the 36 measurements: two mean and two peak values at each of nine arrangements. Two additional measurements -- stature and weight -- are included for comparative purposes. Following are the means, standard deviations, 5th and 95th percentile values for these additional variables.

	Mean	S.D.	5th %ile	95th %ile
Stature	174.0 cm	7.0	162.6	185.7
Weight	157.8 lbs	26.4	122.9	203.5

C-1. XVAL TABLES FOR THE CORE-SUBSERIES 1 MEASUREMENTS

STATISTICS FOR VARIABLES 1C THROUGH 5T

	1C WEIGHT		2C STATURE		4C AXILLA HEIGHT		2T SUPRASTERNALE HEIG		5C CHEST HEIGHT		3T SUBSTERNALE HEIGHT		4T ELBOW HEIGHT		5T KNUCKLE HEIGHT	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	1025.0	5068	153[illegible].0	5042	1133.0	5008	1246.0	5068	1103.0	5008	1038.0	5008	945.0	5068	624.0	5008
2ND SMALLEST	1035.0	5042	1537.0	5068	1150.0	5159	1248.0	5042	1109.0	5159	1071.0	5042	953.0	5159	655.0	5101
3RD SMALLEST	1038.0	5008	1562.0	5159	1150.0	5042	1275.0	5159	1134.0	5042	1084.0	5101	965.0	5230	657.0	5070
4TH SMALLEST	1145.0	5226	1586.0	5068	1163.0	5230	1289.0	5101	1144.0	5180	1088.0	5159	965.0	5042	659.0	5042
5TH SMALLEST	1165.0	5035	1586.0	5180	1179.0	5070	1293.0	5230	1146.0	5101	1102.0	5230	979.0	5070	662.0	5180
6TH SMALLEST	1173.0	5184	1591.0	5230	1189.0	5101	1293.0	5068	1151.0	5170	1106.0	5180	980.0	5180	671.0	5159
7TH SMALLEST	1180.0	5199	1593.0	5011	1190.0	5180	1297.0	5011	1152.0	5230	1109.0	5070	993.0	5101	671.0	5089
8TH SMALLEST	1185.0	5286	1598.0	5101	1192.0	5011	1299.0	5180	1162.0	5068	1111.0	5068	998.0	5086	676.0	5077
9TH SMALLEST	1185.0	5176	1599.0	5120	1197.0	5086	1303.0	5274	1169.0	5070	1115.0	5011	998.0	5077	677.0	5221
XTH SMALLEST	1200.0	5238	1607.0	5274	1200.0	5077	1312.0	5286	1165.0	5011	1116.0	5286	999.0	5170	679.0	5068
******																
XTH LARGEST	2098.0	5168	1874.0	5058	1418.0	5187	1540.0	5058	1372.0	5168	1325.0	5130	1186.0	5257	830.0	5244
9TH LARGEST	2103.0	5017	1874.0	5168	1423.0	5265	1544.0	5259	1372.0	5265	1326.0	5244	1189.0	5098	835.0	5029
8TH LARGEST	2110.0	5083	1875.0	5239	1427.0	5257	1553.0	5265	1377.0	5013	1328.0	5168	1193.0	5239	836.0	5187
7TH LARGEST	2130.0	5090	1876.0	5257	1428.0	5239	1554.0	5168	1381.0	5239	1329.0	5265	1195.0	5264	837.0	5232
6TH LARGEST	2155.0	5051	1891.0	5265	1429.0	5130	1565.0	5264	1385.0	5130	1334.0	5264	1198.0	5168	840.0	5217
5TH LARGEST	2155.0	5181	1898.0	5264	1433.0	5168	1567.0	5257	1396.0	5264	1335.0	5267	1209.0	5267	841.0	5056
4TH LARGEST	2163.0	5056	1907.0	5130	1452.0	5264	1587.0	5267	1402.0	5257	1342.0	5021	1214.0	5217	846.0	5168
3RD LARGEST	2170.0	5264	1912.0	5279	1456.0	5267	1570.0	5130	1406.0	5279	1357.0	5279	1216.0	5265	854.0	5239
2ND LARGEST	2203.0	5222	1930.0	5267	1456.0	5279	1594.0	5279	1427.0	5267	1359.0	5257	1220.0	5279	872.0	5265
1ST LARGEST	2338.0	5058	1974.0	5051	1497.0	5051	1627.0	5051	1466.0	5051	1402.0	5051	1264.0	5051	895.0	5051
THE MEAN VALUE	1560.16		1740.74		1312.44		1426.99		1274.26		1225.68		1094.02		755.07	
STD. DEVIATION	242.16		68.19		56.89		60.85		56.71		54.94		56.54		41.15	
COFF/VARIATION	15.52		3.92		4.49		4.26		4.45		4.48		4.62		5.45	
VETA ONE	.61		.00		-.08		-.01		-.04		-.15		-.03		.05	
VETA TWO	2.94		3.54		3.25		3.37		3.22		3.38		3.28		3.26	
(N-20)-AVG EST	1553.60		1740.79		1312.77		1427.01		1274.54		1226.19		1094.08		755.01	
(N-20)-S.D.EST	245.96		65.51		57.98		59.17		56.13		53.96		49.64		40.62	
PCT DIFF/MEANS	3.		-0.		-1.		-0.		-1.		-1.		-0.		0.	
PCT DIF/ST DVS	-2.		4.		2.		3.		1.		2.		2.		1.	
SIZE OF SAMPLE	287		287		287		287		287		287		287		287	

STATISTICS FOR VARIABLES 6C THROUGH 12C

	6C WAIST HT/ NATURAL		8C BUTTOCK H EIGHT		7T GLUTEAL F URROW HT		8T TIBIALE H EIGHT		9T ACROMION- RADIALE		10T RADIALE-S TYLION		11C SITTING H EIGHT		12C EYE HEIGH T/SIT	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	906.0	5159	755.0	5042	661.0	5042	404.0	5159	279.0	5159	216.0	5042	761.0	5126	668.0	5120
2ND SMALLEST	908.0	5086	771.0	5011	694.0	5159	404.0	5068	290.0	5015	220.0	5159	791.0	5068	675.0	5008
3RD SMALLEST	916.0	5008	774.0	5015	700.0	5011	404.0	5011	291.0	5042	229.0	5015	803.0	5091	685.0	5068
4TH SMALLEST	917.0	5042	775.0	5159	710.0	5176	415.0	5042	296.0	5180	235.0	5220	809.0	5068	698.0	5150
5TH SMALLEST	920.0	5170	779.0	5008	712.0	5221	420.0	5266	295.0	5070	235.0	5176	815.0	5156	699.0	5042
6TH SMALLEST	933.0	5041	780.0	5266	714.0	5180	420.0	5070	301.0	5221	237.0	5230	817.0	5042	702.0	5153
7TH SMALLEST	934.0	5089	791.0	5180	718.0	5266	421.0	5015	301.0	5220	237.0	5011	818.0	5204	703.0	5117
8TH SMALLEST	935.0	5230	793.0	5170	720.0	5070	423.0	5077	302.0	5211	238.0	5266	822.0	5209	703.0	5091
9TH SMALLEST	935.0	5211	797.0	5070	721.0	5101	425.0	5221	302.0	5099	241.0	5221	821.0	5156	708.0	5029
XTH SMALLEST	936.0	5186	797.0	5041	721.0	5008	425.0	5036	304.0	5029	242.0	5185	829.0	5203	709.0	5254
******																
XTH LARGEST	1148.0	5016	986.0	5021	887.0	5050	529.0	5257	370.0	5270	300.0	5269	960.0	5067	840.0	5239
9TH LARGEST	1148.0	5021	990.0	5060	889.0	5060	530.0	5243	371.0	5016	301.0	5015	966.0	5068	841.0	5051
8TH LARGEST	1148.0	5116	990.0	5185	890.0	5130	536.0	5264	371.0	5230	302.0	5267	966.0	5192	841.0	5111
7TH LARGEST	1155.0	5257	991.0	5156	890.0	5207	539.0	5130	372.0	5181	302.0	5279	969.0	5264	844.0	5009
6TH LARGEST	1156.0	5118	992.0	5278	893.0	5221	542.0	5017	375.0	5264	304.0	5133	976.0	5136	844.0	5125
5TH LARGEST	1163.0	5279	1004.0	5264	896.0	5257	543.0	5267	377.0	5051	304.0	5273	976.0	5056	855.0	5168
4TH LARGEST	1169.0	5013	1009.0	5279	900.0	5132	546.0	5130	378.0	5136	305.0	5017	979.0	5039	851.0	5058
3RD LARGEST	1175.0	5267	1022.0	5267	909.0	5279	549.0	5013	379.0	5056	305.0	5181	982.0	5021	859.0	5267
2ND LARGEST	1190.0	5051	1029.0	5136	913.0	5037	557.0	5273	387.0	5013	306.0	5021	998.0	5207	865.0	5085
1ST LARGEST	1191.0	5017	1054.0	5051	946.0	5051	558.0	5051	393.0	5267	315.0	5067	1002.0	5085	867.0	5264
THE MEAN VALUE	1041.18		894.08		808.71		483.14		337.42		268.41		893.43		774.17	
STD. DEVIATION	57.46		50.69		44.17		27.66		16.23		15.75		35.32		33.92	
COFF/VARIATION	5.52		5.67		5.50		5.73		5.40		5.87		4.07		4.38	
VETA ONE	.04		-.01		.06		-.14		.01		.03		.09		.01	
VETA TWO	2.67		3.09		3.16		3.16		3.05		3.25		3.34		3.23	
(N-20)-AVG EST	1040.96		894.07		808.68		483.46		337.47		268.39		893.41		774.28	
(N-20)-S.D.EST	59.25		50.60		44.26		27.22		16.15		15.20		35.30		33.32	
PCT DIFF/MEANS	0.		0.		0.		-1.		-0.		0.		0.		-0.	
PCT DIF/ST DVS	-3.		0.		-0.		2.		0.		2.		2.		2.	
SIZE OF SAMPLE	287		287		287		286		287		287		287		287	

STATISTICS FOR VARIABLES 13C THROUGH 19C

	13C SHLDER-EL BOW LGTH VALUE	SBJCT	11T ELBOW-CTR GRIP LGT VALUE	SBJCT	14C ELBOW-FIN GERTIP LG VALUE	SBJCT	15C KNEE HEIG HT/SIT VALUE	SBJCT	16C POPLITEAL HEIGHT VALUE	SBJCT	17C BUTTOCK-K NEE LENGT VALUE	SBJCT	18C CHEST DEP TH VALUE	SBJCT	19C WAIST DEP TH VALUE	SBJCT
1ST SMALLEST	312.0	5159	283.0	5159	400.0	5159	465.0	5018	370.0	5230	524.0	5042	175.0	5184	160.0	5068
2ND SMALLEST	312.0	5015	297.0	5042	400.0	5042	469.0	5042	373.0	5159	520.0	5159	175.0	5104	164.0	5238
3RD SMALLEST	315.0	5042	301.0	5266	408.0	5015	472.0	5159	374.0	5018	533.0	5008	178.0	5185	165.0	5199
4TH SMALLEST	317.0	5180	307.0	5033	421.0	5280	475.0	5011	374.0	5011	536.0	5160	179.0	5286	165.0	5191
5TH SMALLEST	322.0	5220	307.0	5015	421.0	5008	478.0	5230	375.0	5280	537.0	5015	180.0	5042	168.0	5035
6TH SMALLEST	324.0	5070	308.0	5220	428.0	5011	484.0	5266	379.0	5042	539.0	5268	182.0	5195	169.0	5079
7TH SMALLEST	326.0	5230	310.0	5011	430.0	5060	488.0	5015	383.0	5070	540.0	5011	182.0	5187	171.0	5250
8TH SMALLEST	327.0	5286	311.0	5230	451.0	5180	489.0	5180	385.0	5170	541.0	5286	184.0	5236	171.0	5229
9TH SMALLEST	327.0	5041	311.0	5166	432.0	5102	492.0	5070	388.0	5015	551.0	5005	184.0	5024	173.0	5254
XTH SMALLEST	328.0	5008	312.0	5160	433.0	5230	494.0	5170	390.0	5221	556.0	5130	186.0	5033	173.0	5101
******																
XTH LARGEST	397.0	5016	387.0	5267	526.0	5279	605.0	5205	491.0	5185	663.0	5060	202.0	5037	257.0	5017
9TH LARGEST	398.0	5181	390.0	5051	527.0	5051	606.0	5122	494.0	5122	664.0	5267	202.0	5165	260.0	5167
8TH LARGEST	399.0	5060	391.0	5279	527.0	5267	609.0	5021	495.0	5257	665.0	5181	202.0	5276	260.0	5175
7TH LARGEST	399.0	5067	392.0	5243	529.0	5156	614.0	5257	496.0	5021	666.0	5258	203.0	5041	263.0	5053
6TH LARGEST	402.0	5279	395.0	5017	533.0	5007	617.0	5067	498.0	5265	669.0	5165	203.0	5222	264.0	5037
5TH LARGEST	404.0	5264	397.0	5013	533.0	5243	619.0	5017	501.0	5007	672.0	5279	205.0	5056	264.0	5059
4TH LARGEST	406.0	5051	397.0	5270	536.0	5013	620.0	5130	504.0	5130	676.0	5264	205.0	5085	266.0	5222
3RD LARGEST	408.0	5013	401.0	5181	536.0	5181	624.0	5013	508.0	5013	677.0	5021	206.0	5096	268.0	5086
2ND LARGEST	413.0	5130	403.0	5130	543.0	5021	630.0	5051	541.0	5051	690.0	5017	272.0	5050	282.0	5056
1ST LARGEST	418.0	5207	408.0	5021	546.0	5130	632.0	5279	520.0	5279	703.0	5051	272.0	5175	288.0	5058
THE MEAN VALUE	363.16		349.72		477.71		550.96		442.73		607.61		216.86		202.88	
STD. DEVIATION	16.53		19.63		24.72		30.23		27.16		30.75		19.97		22.54	
COFF/VARIATION	5.10		5.61		5.17		5.49		6.14		5.06		9.21		11.11	
VETA ONE	.03		-.00		-.05		-.04		-.06		.03		.23		.98	
VETA TWO	3.06		3.44		3.33		3.06		3.02		3.01		2.84		4.04	
(N-20)-AVG EST	363.19		349.67		477.77		551.10		442.91		607.89		216.34		201.75	
(N-20)-S.D.EST	16.38		19.06		24.20		29.90		26.95		30.65		20.39		22.00	
PCT DIFF/MEANS	-0.		0.		-0.		-0.		-1.		-0.		2.		5.	
PCT DIF/ST DVS	1.		3.		2.		1.		1.		0.		-2.		2.	
SIZE OF SAMPLE	287		287		287		287		287		287		287		280	

STATISTICS FOR VARIABLES 161 THROUGH 330

	16T BIACROMIA L BREADTH VALUE	SBJCT	25C SHOULDER CIRCUMFER VALUE	SBJCT	27C CHEST CIR CUMFERENC VALUE	SBJCT	29C WAIST CIR C/NATURAL VALUE	SBJCT	19T WAIST CIR C/OMPHALI VALUE	SBJCT	30C HIP CIRCU MFERENCE VALUE	SBJCT	23T BICEPS CI RC, RLXD VALUE	SBJCT	33C BICEPS CI RC, FLXD VALUE	SBJCT
1ST SMALLEST	330.0	5168	953.0	5042	787.0	5207	634.0	5068	634.0	5068	838.0	5068	220.0	5005	238.0	5005
2ND SMALLEST	344.0	5106	977.0	5068	795.0	5066	650.0	5230	642.0	5238	854.0	5207	228.0	5207	249.0	5207
3RD SMALLEST	347.0	5042	989.0	5226	806.0	5033	660.0	5207	650.0	5207	853.0	5226	235.0	5068	250.0	5042
4TH SMALLEST	348.0	5005	989.0	5183	809.0	5068	661.0	5068	661.0	5195	861.0	5183	236.0	5104	257.0	5068
5TH SMALLEST	353.0	5123	991.0	5207	812.0	5005	668.0	5195	661.0	5008	864.0	5042	239.0	5118	260.0	5205
6TH SMALLEST	354.0	5226	993.0	5134	816.0	5104	672.0	5172	670.0	5199	864.0	5005	240.0	5205	260.0	5118
7TH SMALLEST	355.0	5234	994.0	5005	823.0	5042	675.0	5155	670.0	5005	865.0	5176	242.0	5172	262.0	5104
8TH SMALLEST	357.0	5219	998.0	5068	828.0	5184	676.0	5199	672.0	5172	867.0	5203	242.0	5042	266.0	5033
9TH SMALLEST	357.0	5098	1000.0	5104	831.0	5046	678.0	5005	675.0	5155	867.0	5033	244.0	5183	267.0	5172
XTH SMALLEST	358.0	5170	1001.0	5120	837.0	5178	677.0	5202	678.0	5042	869.0	5142	247.0	5176	267.0	5072
******																
XTH LARGEST	430.0	5065	1224.0	5009	1068.0	5012	950.0	5086	980.0	5165	1080.0	5129	345.0	5017	362.0	5122
9TH LARGEST	430.0	5141	1224.0	5094	1070.0	5019	961.0	5165	990.0	5037	1084.0	5051	346.0	5009	363.0	5246
8TH LARGEST	431.0	5026	1230.0	5056	1077.0	5056	973.0	5037	990.0	5053	1090.0	5059	347.0	5059	364.0	5083
7TH LARGEST	433.0	5048	1238.0	5175	1083.0	5017	990.0	5093	1003.0	5090	1090.0	5090	352.0	5058	366.0	5056
6TH LARGEST	435.0	5279	1239.0	5056	1091.0	5270	1003.0	5090	1026.0	5175	1097.0	5083	352.0	5060	369.0	5272
5TH LARGEST	436.0	5112	1248.0	5019	1092.0	5090	1020.0	5175	1035.0	5019	1105.0	5019	357.0	5090	372.0	5181
4TH LARGEST	436.0	5021	1252.0	5017	1099.0	5222	1041.0	5059	1041.0	5059	1112.0	5181	357.0	5181	374.0	5090
3RD LARGEST	439.0	5114	1256.0	5090	1109.0	5083	1042.0	5056	1057.0	5056	1133.0	5017	359.0	5056	379.0	5222
2ND LARGEST	446.0	5181	1293.0	5181	1110.0	5056	1051.0	5222	1060.0	5222	1135.0	5222	361.0	5060	381.0	5060
1ST LARGEST	449.0	5264	1301.0	5083	1112.0	5175	1082.0	5058	1082.0	5058	1136.0	5058	381.0	5222	396.0	5058
THE MEAN VALUE	394.56		1109.22		929.03		786.76		788.75		951.43		291.02		313.78	
STD. DEVIATION	19.82		81.42		86.01		80.46		82.94		80.43		27.68		27.14	
COEF/VARIATION	5.02		7.34		7.11		10.22		10.52		8.35		9.49		8.65	
BETA ONE	-.13		.29		.56		1.06		1.11		.77		.24		.13	
BETA TWO	2.82		2.06		2.83		3.97		4.08		3.10		2.75		2.65	
(N-20)-AVG EST	394.64		1108.45		927.23		782.85		784.50		949.06		291.20		313.68	
(N-20)-S.D.EST	20.09		82.51		87.43		81.42		81.17		82.02		28.14		27.89	
PCT DIFF/MEANS	-0.		1.		3.		5.		5.		4.		1.		0.	
PCT DIF/ST D/S	-1.		-2.		-2.		1.		2.		-3.		-2.		-3.	
SIZE OF SAMPLE	287		287		287		287		287		287		287		287	

THE ARMY MEN (FEBUARY 1977)

STATISTICS FOR VARIABLES 16T THROUGH 33C

	16T BIACROMIA L BREADTH		25C SHOULDER CIRCUMFER		27C CHEST CIR CUMFERENC		29C WAIST CIR C/NATURAL		19T WAIST CIR C/OMPHALI		30C HIP CIRCU MFERENCE		23T BICEPS CI RC, RLXD		33C BICEPS CI RC, FLXD	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	336.0	5168	953.0	5042	787.0	5207	634.0	5068	634.0	5068	838.0	5068	220.0	5005	238.0	5005
2ND SMALLEST	344.0	5106	977.0	5068	795.0	5068	650.0	5230	642.0	5238	854.0	5207	228.0	5207	249.0	5207
3RD SMALLEST	347.0	5042	989.0	5226	806.0	5033	660.0	5207	650.0	5207	853.0	5226	235.0	5068	250.0	5042
4TH SMALLEST	348.0	5005	989.0	5183	809.0	5068	661.0	5068	661.0	5195	861.0	5183	236.0	5104	257.0	5068
5TH SMALLEST	353.0	5120	991.0	5207	812.0	5005	666.0	5195	661.0	5008	864.0	5042	239.0	5118	260.0	5205
6TH SMALLEST	354.0	5226	993.0	5134	816.0	5104	672.0	5172	670.0	5199	864.0	5068	240.0	5205	260.0	5118
7TH SMALLEST	355.0	5234	994.0	5005	823.0	5042	675.0	5155	670.0	5005	865.0	5176	242.0	5172	262.0	5104
8TH SMALLEST	357.0	5219	998.0	5068	828.0	5184	676.0	5199	672.0	5172	867.0	5203	242.0	5042	266.0	5033
9TH SMALLEST	357.0	5098	1000.0	5104	831.0	5046	678.0	5005	675.0	5155	867.0	5033	244.0	5183	267.0	5172
XTH SMALLEST	358.0	5170	1001.0	5120	837.0	5178	677.0	5262	675.0	5042	869.0	5142	247.0	5176	267.0	5072
******																
XTH LARGEST	430.0	5065	1224.0	5009	1068.0	5012	950.0	5086	980.0	5165	1080.0	5129	345.0	5017	362.0	5122
9TH LARGEST	430.0	5141	1224.0	5094	1076.0	5019	961.0	5165	990.0	5037	1084.0	5051	346.0	5009	363.0	5246
8TH LARGEST	431.0	5026	1230.0	5056	1077.0	5058	973.0	5037	990.0	5053	1090.0	5059	347.0	5059	364.0	5083
7TH LARGEST	433.0	5048	1238.0	5175	1083.0	5017	990.0	5053	1003.0	5080	1090.0	5094	352.0	5058	366.0	5056
6TH LARGEST	435.0	5279	1239.0	5058	1091.0	5270	1003.0	5090	1026.0	5175	1097.0	5083	352.0	5006	369.0	5272
5TH LARGEST	436.0	5112	1248.0	5019	1092.0	5094	1020.0	5175	1035.0	5019	1105.0	5019	357.0	5094	372.0	5181
4TH LARGEST	436.0	5021	1252.0	5017	1099.0	5222	1041.0	5059	1041.0	5059	1112.0	5181	357.0	5181	374.0	5090
3RD LARGEST	439.0	5114	1256.0	5090	1109.0	5083	1042.0	5056	1057.0	5056	1133.0	5017	359.0	5056	379.0	5222
2ND LARGEST	446.0	5181	1293.0	5181	1110.0	5056	1051.0	5222	1060.0	5222	1139.0	5222	361.0	5086	381.0	5060
1ST LARGEST	449.0	5264	1301.0	5083	1112.0	5175	1082.0	5058	1082.0	5058	1138.0	5056	381.0	5222	390.0	5058
THE MEAN VALUE	394.56		1109.22		929.03		786.76		788.75		951.43		291.02		313.78	
STD. DEVIATION	19.82		61.42		66.01		80.46		82.94		66.43		27.68		27.14	
COEF/VARIATION	5.02		5.54		7.11		10.22		10.52		6.35		9.49		8.65	
VETA ONE	-.13		.29		.56		1.06		1.11		.77		.24		.13	
VETA TWO	2.82		2.06		2.83		3.97		4.08		3.10		2.75		2.65	
(N-20)-AVG EST	394.64		1108.45		927.23		782.85		784.50		949.06		291.20		313.68	
(N-20)-S.D.EST	20.09		62.51		67.43		79.42		81.17		62.52		28.14		27.89	
PCT DIFF/MEANS	-0.		1.		3.		5.		5.		4.		1.		0.	
PCT DIF/ST DVS	-1.		-2.		-2.		1.		2.		-3.		-2.		-3.	
SIZE OF SAMPLE	287		287		287		287		287		287		287		287	

STATISTICS FOR VARIABLES 39C THROUGH 47C

	39C CALF CIRC UMFERENCE		40C ANKLE CIR CUMFERENC		42C INTERSCYE BACK		43C INTERSCYE FRONT		44C BACK ARC, CHEST		45C BACK ARC, WAIST		46C BACK ARC, HIP		47C WAIST BAC K	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	285.0	5008	180.0	5008	332.0	5049	317.0	5005	378.0	5008	311.0	5238	395.0	5176	377.0	5241
2ND SMALLEST	294.0	5199	184.0	5199	334.0	5046	321.0	5042	380.0	5238	314.0	5286	409.0	5087	380.0	5091
3RD SMALLEST	296.0	5226	187.0	5226	344.0	5106	324.0	5204	394.0	5005	319.0	5068	413.0	5159	380.0	5019
4TH SMALLEST	297.0	5068	187.0	5042	346.0	5105	325.0	5226	395.0	5011	320.0	5282	414.0	5183	382.0	5131
5TH SMALLEST	301.0	5236	188.0	5286	354.0	5134	327.0	5169	396.0	5033	322.0	5042	415.0	5105	382.0	5120
6TH SMALLEST	304.0	5176	189.0	5238	355.0	5286	328.0	5183	399.0	5104	324.0	5195	415.0	5033	384.0	5251
7TH SMALLEST	305.0	5253	189.0	5136	359.0	5008	329.0	5264	400.0	5286	325.0	5199	417.0	5226	385.0	5008
8TH SMALLEST	306.0	5172	190.0	5176	356.0	5199	329.0	5109	400.0	5195	325.0	5105	416.0	5207	386.0	5253
9TH SMALLEST	310.0	5104	191.0	5120	357.0	5149	330.0	5219	401.0	5072	327.0	5005	420.0	5199	388.0	5230
XTH SMALLEST	311.0	5042	191.0	5066	359.0	5097	330.0	5176	401.0	5024	328.0	5015	420.0	5160	390.0	5080
******																
XTH LARGEST	415.0	5217	241.0	5061	465.0	5175	407.0	5156	522.0	5059	482.0	5094	535.0	5019	510.0	5237
9TH LARGEST	416.0	5181	242.0	5265	468.0	5157	407.0	5181	524.0	5165	484.0	5037	535.0	5041	511.0	5090
8TH LARGEST	418.0	5269	243.0	5045	468.0	5248	410.0	5048	526.0	5217	488.0	5086	535.0	5059	513.0	5061
7TH LARGEST	419.0	5240	244.0	5211	469.0	5012	410.0	5132	527.0	5083	492.0	5090	536.0	5094	514.0	5082
6TH LARGEST	420.0	5168	245.0	5020	473.0	5136	410.0	5222	530.0	5017	496.0	5175	540.0	5017	518.0	5168
5TH LARGEST	422.0	5105	247.0	5009	475.0	5009	411.0	5264	535.0	5222	497.0	5053	540.0	5110	519.0	5239
4TH LARGEST	424.0	5083	250.0	5090	475.0	5021	411.0	5279	540.0	5270	532.0	5059	549.0	5181	520.0	5244
3RD LARGEST	429.0	5045	254.0	5217	475.0	5240	412.0	5063	541.0	5056	544.0	5056	550.0	5096	521.0	5217
2ND LARGEST	435.0	5090	259.0	5264	476.0	5239	412.0	5223	546.0	5244	560.0	5222	555.0	5222	528.0	5058
1ST LARGEST	440.0	5264	260.0	5058	481.0	5181	413.0	5265	547.0	5090	573.0	5058	584.0	5058	530.0	5051
THE MEAN VALUE	358.25		217.07		416.18		366.67		451.73		389.61		465.65		449.01	
STD. DEVIATION	27.97		14.23		26.09		19.66		33.69		42.76		31.31		32.03	
COFF/VARIATION	7.81		6.56		6.85		5.34		7.46		10.98		6.72		7.13	
VETA ONE	.26		.12		.02		.10		.59		1.18		.71		.07	
VETA TWO	2.93		2.76		2.82		2.71		2.91		4.95		3.26		2.65	
(N-20)-AVG EST	357.95		217.00		416.13		366.56		450.79		387.47		464.60		448.87	
(N-20)-S.D.EST	28.11		14.46		26.31		19.98		34.70		40.75		31.66		32.96	
PCT DIFF/MEANS	1.		1.		0.		1.		3.		5.		3.		0.	
PCT DIF/ST DVS	-1.		-2.		-1.		-2.		-3.		5.		-1.		-3.	
SIZE OF SAMPLE	287		287		287		287		287		287		287		287	

STATISTICS FOR VARIABLES 48C THROUGH 58C

	48C WAIST FRONT		51C SLEEVE INSEAM		52C SLEEVE OUTSEAM		54C HEAD CIRCUMFERENCE		55C HEAD BREADTH		56C HEAD LENGTH		57C PALM LENGTH		58C HAND BREADTH	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	326.0	5253	389.0	5159	473.0	5159	516.0	5049	137.0	5172	168.0	5068	90.0	5015	78.0	5226
2ND SMALLEST	326.0	5019	402.0	5015	504.0	5042	518.0	5019	138.0	5168	175.0	5049	91.0	5042	78.0	5068
3RD SMALLEST	343.0	5120	413.0	5042	510.0	5015	519.0	5184	139.0	5252	176.0	5194	93.0	5008	79.0	5180
4TH SMALLEST	344.0	5035	426.0	5223	516.0	5230	520.0	5006	139.0	5049	178.0	5260	94.0	5159	79.0	5042
5TH SMALLEST	345.0	5004	427.0	5106	521.0	5211	522.0	5194	140.0	5236	178.0	5108	95.0	5180	80.0	5008
6TH SMALLEST	346.0	5111	427.0	5011	523.0	5220	523.0	5168	140.0	5047	179.0	5102	96.0	5242	81.0	5184
7TH SMALLEST	348.0	5191	429.0	5286	525.0	5221	525.0	5220	141.0	5184	180.0	5015	96.0	5166	82.0	5176
8TH SMALLEST	350.0	5235	430.0	5008	525.0	5071	525.0	5102	141.0	5103	180.0	5019	97.0	5250	82.0	5134
9TH SMALLEST	352.0	5241	431.0	5230	526.0	5180	526.0	5042	141.0	5162	181.0	5220	97.0	5106	82.0	5127
XTH SMALLEST	352.0	5108	432.0	5211	526.0	5011	527.0	5220	141.0	5105	181.0	5185	97.0	5016	82.0	5121
******																
XTH LARGEST	470.0	5041	535.0	5181	652.0	5021	589.0	5065	160.0	5179	208.0	5140	118.0	5138	97.0	5130
9TH LARGEST	470.0	5085	536.0	5051	655.0	5251	590.0	5123	161.0	5034	208.0	5234	119.0	5078	98.0	5001
8TH LARGEST	471.0	5211	537.0	5001	655.0	5206	590.0	5212	162.0	5017	208.0	5246	119.0	5080	98.0	5058
7TH LARGEST	471.0	5217	540.0	5021	658.0	5013	590.0	5255	162.0	5206	208.0	5277	119.0	5165	98.0	5074
6TH LARGEST	473.0	5168	540.0	5270	659.0	5279	592.0	5103	164.0	5113	209.0	5258	119.0	5269	98.0	5078
5TH LARGEST	477.0	5051	545.0	5130	660.0	5136	595.0	5267	164.0	5222	210.0	5134	120.0	5021	98.0	5208
4TH LARGEST	478.0	5239	546.0	5206	660.0	5181	596.0	5113	165.0	5037	210.0	5250	120.0	5058	98.0	5212
3RD LARGEST	478.0	5262	552.0	5067	666.0	5270	597.0	5069	165.0	5006	213.0	5130	120.0	5067	98.0	5244
2ND LARGEST	480.0	5192	552.0	5267	666.0	5017	601.0	5256	165.0	5117	213.0	5267	121.0	5136	99.0	5051
1ST LARGEST	490.0	5222	563.0	5013	669.0	5267	603.0	5006	167.0	5270	214.0	5067	121.0	5204	100.0	5009
THE MEAN VALUE	416.47		482.64		587.73		560.07		150.59		194.38		107.51		89.23	
STD. DEVIATION	30.30		27.25		32.28		16.26		5.37		7.02		5.79		4.29	
COEF/VARIATION	7.36		5.65		5.49		2.90		3.56		3.61		5.38		4.80	
VETA ONE	.00		.03		.04		-.15		.17		-.14		-.10		.04	
VETA TWO	2.91		3.31		3.10		3.01		3.04		3.63		2.86		2.64	
(N-20)-AVG EST	416.54		482.65		587.77		560.21		150.48		194.75		107.54		89.23	
(N-20)-S.D.EST	30.58		26.77		32.03		16.26		5.36		6.01		5.67		4.42	
PCT DIFF/MEANS	-0.		-0.		-0.		-1.		1.		-1.		-1.		0.	
PCT DIF/ST DVS	-1.		2.		1.		-0.		3.		3.		-1.		-3.	
SIZE OF SAMPLE	287		287		287		287		287		287		287		287	

STATISTICS FOR VARIABLES 59C THROUGH 69C

	59C HAND CIRCUMFERENCE		60C HAND LENGTH		61C INSTEP LENGTH		62C FOOT LENGTH		63C HEEL-ANKLE CIRCUMF		64C FOOT BREADTH		66C FOOT CIRCUMFERENCE		69C SPHYRION HEIGHT	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	181.0	5226	159.0	5042	168.0	5011	225.0	5042	285.0	5008	81.0	5220	215.0	5220	55.0	5105
2ND SMALLEST	185.0	5180	163.0	5015	169.0	5127	234.0	5159	291.0	5042	81.0	5068	216.0	5042	60.0	5268
3RD SMALLEST	186.0	5042	165.0	5008	170.0	5180	235.0	5006	299.0	5286	84.0	5042	220.0	5227	60.0	5216
4TH SMALLEST	189.0	5068	166.0	5159	171.0	5213	236.0	5011	299.0	5176	85.0	5136	222.0	5068	60.0	5120
5TH SMALLEST	190.0	5260	170.0	5106	171.0	5153	237.0	5015	301.0	5180	86.0	5227	223.0	5006	60.0	5089
6TH SMALLEST	191.0	5038	171.0	5086	173.0	5274	240.0	5170	306.0	5199	87.0	5266	225.0	5261	60.0	5018
7TH SMALLEST	193.0	5120	172.0	5256	173.0	5099	240.0	5127	307.0	5068	87.0	5256	226.0	5229	61.0	5070
8TH SMALLEST	194.0	5227	172.0	5180	173.0	5086	240.0	5066	308.0	5238	88.0	5280	226.0	5160	61.0	5017
9TH SMALLEST	194.0	5134	172.0	5011	174.0	5042	241.0	5136	308.0	5159	88.0	5164	229.0	5199	62.0	5180
XTH SMALLEST	195.0	5203	173.0	5186	175.0	5047	242.0	5193	310.0	5226	89.0	5160	230.0	5176	62.0	5177
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XTH LARGEST	230.0	5156	207.0	5116	219.0	5090	290.0	5038	374.0	5038	110.0	5017	276.0	5060	85.0	5123
9TH LARGEST	231.0	5078	207.0	5197	221.0	5029	290.0	5058	375.0	5264	110.0	5051	277.0	5078	85.0	5182
8TH LARGEST	231.0	5123	208.0	5138	221.0	5257	292.0	5270	377.0	5013	111.0	5060	277.0	5090	86.0	5056
7TH LARGEST	231.0	5208	208.0	5156	222.0	5023	295.0	5048	377.0	5029	111.0	5078	277.0	5208	86.0	5059
6TH LARGEST	232.0	5051	208.0	5243	222.0	5058	295.0	5130	377.0	5058	111.0	5208	278.0	5138	86.0	5168
5TH LARGEST	232.0	5244	209.0	5264	223.0	5051	295.0	5217	378.0	5020	110.0	5257	280.0	5058	86.0	5187
4TH LARGEST	235.0	5122	210.0	5115	223.0	5209	299.0	5257	378.0	5027	111.0	5269	280.0	5264	87.0	5021
3RD LARGEST	236.0	5058	210.0	5257	224.0	5048	296.0	5051	378.0	5269	112.0	5058	281.0	5051	87.0	5130
2ND LARGEST	238.0	5139	213.0	5130	227.0	5270	296.0	5060	386.0	5021	114.0	5009	284.0	5009	89.0	5013
1ST LARGEST	240.0	5009	217.0	5021	230.0	5060	296.0	5116	390.0	5217	115.0	5196	285.0	5269	94.0	5006
THE MEAN VALUE	211.12		190.01		197.00		267.58		340.22		99.17		251.54		73.83	
STD. DEVIATION	9.98		9.80		11.79		13.33		17.44		5.62		12.85		6.13	
COFF/VARIATION	4.73		5.19		5.98		4.98		5.13		5.67		5.11		8.31	
VETA ONE	.08		-.13		.02		-.16		.07		-.12		.10		-.03	
VETA TWO	2.96		2.76		2.83		2.80		3.14		3.31		2.88		2.97	
(N-20)-AVG EST	211.07		190.08		197.03		267.73		340.22		99.23		251.56		73.85	
(N-20)-S.D.EST	10.02		10.09		11.92		13.57		17.38		5.52		12.94		6.15	
PCT DIFF/MEANS	0.		-1.		0.		-1.		-0.		-1.		-0.		-0.	
PCT DIF/ST DVS	-0.		-2.		-1.		-2.		0.		2.		-1.		-0.	
SIZE OF SAMPLE	287		287		286		286		287		286		287		286	

STATISTICS FOR VARIABLES 29T THROUGH 30T

	29T WAIST HT/ UMPHALION VALUE	SBJCT	30T MIDSHOULD ER HEIGHT VALUE	SBJCT
1ST SMALLEST	895.0	5008	528.0	5120
2ND SMALLEST	899.0	5042	537.0	5068
3RD SMALLEST	916.0	5159	540.0	5008
4TH SMALLEST	929.0	5011	546.0	5091
5TH SMALLEST	941.0	5015	552.0	5169
6TH SMALLEST	944.0	5070	553.0	5209
7TH SMALLEST	946.0	5101	553.0	5101
8TH SMALLEST	947.0	5230	559.0	5042
9TH SMALLEST	947.0	5086	560.0	5089
XTH SMALLEST	949.0	5170	562.0	5057
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XTH LARGEST	1153.0	5117	672.0	5079
9TH LARGEST	1155.0	5116	674.0	5125
8TH LARGEST	1159.0	5267	680.0	5259
7TH LARGEST	1161.0	5021	682.0	5069
6TH LARGEST	1181.0	5257	683.0	5106
5TH LARGEST	1181.0	5264	683.0	5217
4TH LARGEST	1173.0	5230	686.0	5058
3RD LARGEST	1175.0	5013	687.0	5085
2ND LARGEST	1185.0	5279	689.0	5267
1ST LARGEST	1199.0	5051	692.0	5051
THE MEAN VALUE	1054.76		613.69	
STD. DEVIATION	52.67		30.28	
COEF/VARIATION	4.99		4.93	
BETA ONE	-.00		.08	
BETA TWO	3.11		2.89	
(N-20)-AVG EST	1055.07		613.74	
(N-20)-S.D.EST	52.25		30.38	
PCT DIFF/MEANS	-1.		0.	
PCT DIF/ST DVS	1.		-0.	
SIZE OF SAMPLE	287		287	

A SUMMARY OF THE MATERIAL ALREADY PRESENTED EITHER ON THE PRECEDING PAGES OR ON THE PUNCHED RANGE CARDS

NO.	VARIABLE NAME	MEAN	STD DEV	V-I	V-II	V	DELM	DELS	N	---THE RANGE CARD VALUES--- MINIMUM	MIN	MAX	AVG	INTV1	INTV2	CF1	CF2
1C	WEIGHT	1560.16	242.16	.61	2.94	15.5%	2.7	-1.5	287	1025.0	1017.5	2338.0	1560.0	50.00	50.00	.04536	2.20462
2C	STATURE	1740.74	68.19	.00	3.54	3.9%	-.1	4.1	287	1530.0	1527.5	1974.0	1741.0	15.00	10.00	.10000	.39370
4C	AXILLA HEIGHT	1312.44	58.89	-.08	3.25	4.5%	-.6	1.6	287	1133.0	1127.5	1497.0	1312.0	15.00	10.00	.10000	.39370
2T	SUPRASTERNALE HEIG	1426.99	60.85	-.01	3.37	4.3%	-.0	2.8	287	1246.0	1237.5	1627.0	1427.0	15.00	10.00	.10000	.39370
5C	CHEST HEIGHT	1274.26	56.71	-.04	3.22	4.5%	-.5	1.6	287	1103.0	1097.5	1466.0	1274.0	15.00	10.00	.10000	.39370
3T	SUBSTERNALE HEIGHT	1225.68	54.94	-.15	3.38	4.5%	-.9	1.8	287	1038.0	1037.5	1402.0	1226.0	15.00	10.00	.10000	.39370
4T	ELBOW HEIGHT	1094.02	50.54	-.03	3.28	4.6%	-.1	1.8	287	945.0	937.5	1264.0	1094.0	15.00	10.00	.10000	.39370
5T	KNUCKLE HEIGHT	755.07	41.15	.05	3.26	5.4%	.1	1.3	287	624.0	617.5	895.0	755.0	10.00	10.00	.10000	.39370
6C	WAIST HT/NATURAL	1041.18	57.46	.04	2.67	5.5%	.4	-3.0	287	906.0	897.5	1191.0	1041.0	10.00	10.00	.10000	.39370
8C	BUTTOCK HEIGHT	894.08	50.69	-.01	3.09	5.7%	.0	.1	287	755.0	747.5	1054.0	894.0	15.00	10.00	.10000	.39370
7T	GLUTEAL FURROW HT	803.71	44.17	.06	3.16	5.5%	.1	-.2	287	661.0	657.5	946.0	804.0	10.00	10.00	.10000	.39370
8T	TIBIALE HEIGHT	483.14	27.68	-.14	3.18	5.7%	-1.2	1.7	283	404.0	402.5	558.0	483.0	10.00	5.00	.10000	.39370
9T	ACROMION-RADIALE	337.42	18.23	.01	3.05	5.4%	-.3	.4	287	279.0	278.5	393.0	337.0	5.00	3.00	.10000	.39370
10T	RADIALE-STYLION	268.41	15.75	.03	3.25	5.9%	.1	1.6	287	216.0	215.5	315.0	268.0	5.00	2.00	.10000	.39370
11C	SITTING HEIGHT	893.43	36.32	.05	3.34	4.1%	.1	2.3	287	781.0	777.5	1002.0	893.0	10.00	5.00	.10000	.39370
12C	EYE HEIGHT/SIT	774.17	33.92	.01	3.23	4.4%	-.4	1.8	287	668.0	667.5	867.0	774.0	10.00	5.00	.10000	.39370
13C	SHLDER-ELBOW LGTH	363.16	18.53	.03	3.06	5.1%	-.2	.8	287	312.0	311.5	418.0	363.0	5.00	3.00	.10000	.39370
11T	ELBOW-CTR GRIP LGT	349.72	19.63	-.00	3.44	5.6%	.3	3.0	287	283.0	281.5	408.0	350.0	5.00	3.00	.10000	.39370
14C	ELBOW-FINGERTIP LG	477.71	24.72	-.05	3.33	5.2%	-.2	2.1	287	400.0	398.5	546.0	478.0	5.00	3.00	.10000	.39370
15C	KNEE HEIGHT/SIT	550.96	30.23	-.04	3.06	5.5%	-.5	1.1	287	465.0	462.5	632.0	551.0	10.00	5.00	.10000	.39370
16C	POPLITEAL HEIGHT	442.73	27.16	-.06	3.02	6.1%	-.7	.8	287	370.0	367.5	520.0	443.0	10.00	5.00	.10000	.39370
17C	BUTTOCK-KNEE LENGT	607.81	30.75	.03	3.01	5.1%	-.3	.3	287	524.0	522.5	703.0	608.0	10.00	5.00	.10000	.39370
18C	CHEST DEPTH	216.80	19.97	.53	2.84	9.2%	2.2	-2.1	287	175.0	173.5	272.0	217.0	5.00	2.00	.10000	.39370
19C	WAIST DEPTH	202.88	22.54	.98	4.04	11.1%	5.1	2.5	280	160.0	158.5	288.0	203.0	5.00	3.00	.10000	.39370
16T	BIACROMIAL BREADTH	394.58	19.82	-.13	2.82	5.0%	-.3	-1.3	287	336.0	335.5	449.0	395.0	5.00	3.00	.10000	.39370
25C	SHOULDER CIRCUMFER	1109.22	61.42	.29	2.86	5.5%	1.2	-1.7	287	953.0	947.5	1301.0	1109.0	15.00	10.00	.10000	.39370
27C	CHEST CIRCUMFERENC	929.03	66.01	.56	2.83	7.1%	2.7	-2.2	287	787.0	777.5	1112.0	929.0	15.00	10.00	.10000	.39370
29C	WAIST CIRC/NATURAL	786.76	80.40	1.06	3.97	10.2%	4.9	1.2	287	634.0	627.5	1082.0	787.0	20.00	10.00	.10000	.39370
19T	WAIST CIRC/OMPHALI	788.75	82.94	1.11	4.08	10.5%	5.2	2.2	287	634.0	627.5	1082.0	789.0	20.00	10.00	.10000	.39370
30C	HIP CIRCUMFERENCE	951.43	60.43	.77	3.10	6.4%	3.8	-2.6	287	838.0	837.5	1138.0	951.0	15.00	10.00	.10000	.39370
23T	BICEPS CIRC, RLXD	291.62	27.68	.24	2.75	9.5%	1.3	-1.6	287	220.0	217.5	381.0	292.0	10.00	5.00	.10000	.39370
33C	BICEPS CIRC, FLXD	313.78	27.14	.13	2.65	8.6%	.4	-2.7	287	238.0	237.5	390.0	314.0	10.00	5.00	.10000	.39370
39C	CALF CIRCUMFERENCE	358.25	27.97	.28	2.93	7.8%	1.1	-.5	287	285.0	282.5	440.0	358.0	10.00	5.00	.10000	.39370
40C	ANKLE CIRCUMFERENC	217.07	14.23	.12	2.76	6.6%	.5	-1.6	287	180.0	179.5	260.0	217.0	3.00	2.00	.10000	.39370
42C	INTERSCYE BACK	410.18	28.09	.02	2.82	6.8%	.2	-.7	287	332.0	327.5	481.0	410.0	10.00	5.00	.10000	.39370
43C	INTERSCYE FRONT	366.67	19.60	.10	2.71	5.3%	.6	-1.9	287	317.0	315.5	413.0	367.0	5.00	2.00	.10000	.39370
44C	BACK ARC, CHEST	451.73	33.69	.59	2.81	7.5%	2.7	-2.9	287	378.0	377.5	547.0	452.0	10.00	5.00	.10000	.39370
45C	BACK ARC, WAIST	389.61	42.76	1.18	4.95	11.0%	5.2	4.9	287	311.0	307.5	573.0	390.0	10.00	10.00	.10000	.39370
46C	BACK ARC, HIP	465.65	31.31	.71	3.26	6.7%	3.3	-1.1	287	395.0	392.5	584.0	466.0	10.00	5.00	.10000	.39370
47C	WAIST BACK	449.01	32.03	.07	2.65	7.1%	.4	-2.8	287	377.0	372.5	530.0	449.0	10.00	5.00	.10000	.39370
48C	WAIST FRONT	410.47	30.30	.00	2.91	7.4%	-.2	-.9	287	326.0	322.5	490.0	410.0	10.00	5.00	.10000	.39370
51C	SLEEVE INSEAM	482.64	27.25	.03	3.31	5.6%	-.0	1.8	287	389.0	387.5	563.0	483.0	10.00	5.00	.10000	.39370
52C	SLEEVE OUTSEAM	587.73	32.28	.04	3.10	5.5%	-.1	.6	287	473.0	472.5	669.0	588.0	10.00	5.00	.10000	.39370
54C	HEAD CIRCUMFERENCE	560.07	16.26	-.15	3.01	2.9%	-.9	-.0	287	516.0	515.5	603.0	560.0	3.00	2.00	.10000	.39370
55C	HEAD BREADTH	150.55	5.37	.17	3.04	3.6%	1.5	.2	287	137.0	136.5	167.0	151.0	2.00	1.00	.10000	.39370
56C	HEAD LENGTH	194.68	7.02	-.14	3.63	3.6%	-.9	3.0	287	168.0	167.5	214.0	195.0	2.00	1.00	.10000	.39370
57C	PALM LENGTH	107.51	5.79	-.16	2.86	5.4%	-.5	-1.3	287	90.0	89.5	121.0	108.0	2.00	1.00	.10000	.39370
58C	HAND BREADTH	89.23	4.29	.04	2.64	4.8%	.0	-3.0	287	78.0	77.5	100.0	89.0	1.00	1.00	.10000	.39370
59C	HAND CIRCUMFERENCE	211.12	9.98	.08	2.96	4.7%	.4	-.3	287	181.0	179.5	240.0	211.0	3.00	2.00	.10000	.39370
60C	HAND LENGTH	190.01	9.86	-.13	2.76	5.2%	-.7	-2.0	287	159.0	157.5	217.0	190.0	2.00	2.00	.10000	.39370

A SUMMARY OF THE MATERIAL ALREADY PRESENTED EITHER ON THE PRECEDING PAGES OR ON THE PUNCHED RANGE CARDS

NO.	VARIABLE NAME	MEAN	STD DEV	V-I	V-II	V	DELM	DELS	N	---THE RANGE CARD VALUES--- MINIMUM	MIN	MAX	AVG	INTV1	INTV2	CF1	CF2
61C	INSTEP LENGTH	197.06	11.79	.02	2.83	6.0%	.2	-1.1	286	168.0	167.5	230.0	197.0	3.00	2.00	.10000	.39370
62C	FOOT LENGTH	267.58	15.33	-.16	2.80	5.8%	-1.2	-1.8	286	225.0	223.5	296.0	268.0	3.00	2.00	.10000	.39370
63C	HEEL-ANKLE CIRCUMF	340.22	17.44	.07	3.14	5.1%	-.3	.3	287	285.0	284.5	396.0	340.0	5.00	3.00	.10000	.39370
64C	FOOT BREADTH	99.17	5.62	-.12	3.31	5.7%	-1.0	1.9	286	81.0	80.5	115.0	99.0	2.00	1.00	.10000	.39370
66C	FOOT CIRCUMFERENCE	251.54	12.85	.10	2.68	5.1%	-.1	-.7	287	215.0	213.5	285.0	252.0	3.00	2.00	.10000	.39370
69C	SPHYRION HEIGHT	73.83	6.13	-.04	2.97	8.3%	-.3	-.2	286	55.0	54.5	94.0	74.0	2.00	1.00	.10000	.39370
29T	WAIST HT/OMPHALION	1054.70	52.67	-.08	3.11	5.0%	-.7	.8	287	895.0	887.5	1199.0	1055.0	15.00	10.00	.10000	.39370
30T	MIDSHOULDER HEIGHT	613.89	30.28	.08	2.69	4.9%	.5	-.3	287	528.0	527.5	692.0	614.0	10.00	5.00	.10000	.39370

C-2. XVAL TABLES FOR THE WORKSPACE SUBSERIES

STATISTICS FOR VARIABLES 1 THROUGH 8

	1 OVERHEAD REACH HT		2 FUNCTIONAL REACH		3 FUNCT REACH EXTEND		4 OVERHEAD REACH SIT		5 FUNCTIONAL LEG LN		6 WEIGHT		7 STATURE		8 OVERHEAD REACH BRD	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	1855.0	5159	691.0	5221	785.0	5159	1189.0	5159	1052.0	5159	1075.0	5068	1612.0	5159	336.0	5259
2ND SMALLEST	1953.0	5068	703.0	5170	827.0	5068	1206.0	5126	1092.0	5148	1243.0	5184	1617.0	5068	342.0	5068
3RD SMALLEST	1965.0	5170	706.0	5159	835.0	5135	1242.0	5068	1100.0	5194	1258.0	5199	1641.0	5120	346.0	5199
4TH SMALLEST	1978.0	5120	712.0	5200	836.0	5221	1267.0	5170	1101.0	5120	1260.0	5207	1680.0	5221	350.0	5207
5TH SMALLEST	1981.0	5077	720.0	5111	838.0	5208	1267.0	5077	1102.0	5221	1265.0	5120	1682.0	5170	350.0	5049
6TH SMALLEST	2001.0	5102	722.0	5136	839.0	5107	1285.0	5102	1105.0	5170	1273.0	5176	1685.0	5077	351.0	5169
7TH SMALLEST	2003.0	5221	730.0	5120	841.0	5111	1287.0	5142	1109.0	5283	1283.0	5159	1689.0	5148	352.0	5256
8TH SMALLEST	2005.0	5200	736.0	5078	845.0	5200	1294.0	5161	1109.0	5176	1295.0	5104	1691.0	5283	352.0	5215
9TH SMALLEST	2029.0	5176	737.0	5176	846.0	5133	1298.0	5112	1113.0	5107	1335.0	5142	1693.0	5194	352.0	5201
XTH SMALLEST	2031.0	5148	738.0	5256	850.0	5136	1307.0	5179	1115.0	5252	1343.0	5203	1706.0	5252	353.0	5120
******																
XTH LARGEST	2290.0	5123	857.0	5048	1064.0	5278	1446.0	5048	1264.0	5250	1939.0	5198	1862.0	5232	412.0	5244
9TH LARGEST	2296.0	5050	860.0	5050	1067.0	5245	1447.0	5232	1267.0	5123	1925.0	5156	1867.0	5050	413.0	5048
8TH LARGEST	2296.0	5138	863.0	5094	1067.0	5267	1447.0	5259	1268.0	5138	1928.0	5094	1867.0	5270	413.0	5269
7TH LARGEST	2301.0	5156	864.0	5270	1012.0	5244	1450.0	5084	1268.0	5236	1960.0	5232	1884.0	5067	414.0	5094
6TH LARGEST	2303.0	5187	868.0	5245	1013.0	5118	1450.0	5187	1271.0	5270	1960.0	5269	1890.0	5138	416.0	5085
5TH LARGEST	2303.0	5244	869.0	5185	1020.0	5231	1457.0	5156	1279.0	5225	2020.0	5244	1897.0	5048	423.0	5192
4TH LARGEST	2313.0	5048	874.0	5123	1020.0	5277	1490.0	5244	1281.0	5243	2030.0	5110	1897.0	5187	423.0	5198
3RD LARGEST	2326.0	5270	876.0	5278	1024.0	5048	1500.0	5156	1281.0	5278	2075.0	5085	1901.0	5257	427.0	5222
2ND LARGEST	2338.0	5257	882.0	5259	1041.0	5050	1515.0	5270	1315.0	5187	2173.0	5083	1905.0	5244	434.0	5191
1ST LARGEST	2392.0	5267	882.0	5267	1045.0	5067	1538.0	5267	1316.0	5257	2263.0	5222	1964.0	5267	441.0	5083
THE MEAN VALUE	2151.05		797.51		918.64		1300.79		1185.51		1590.98		1779.48		384.99	
STD. DEVIATION	94.16		41.18		52.21		58.56		52.38		218.26		52.55		20.55	
COFF/VARIATION	4.38		5.16		5.68		4.27		4.42		13.72		3.52		5.34	
VETA ONE	-.09		-.17		.27		-.04		.11		.59		.06		.09	
VETA TWO	3.16		2.87		2.74		3.82		2.65		3.17		3.26		2.83	
(N-20)-AVG EST	2151.76		798.21		916.76		1368.73		1184.36		1578.73		1779.31		384.99	
(N-20)-S.D.EST	93.48		40.31		53.13		54.64		55.17		220.28		60.96		20.65	
PCT DIFF/MEANS	-1.		-2.		4.		5.		2.		6.		1.		0.	
PCT DIF/ST DVS	1.		2.		-2.		7.		-5.		-1.		3.		-0.	
SIZE OF SAMPLE	106		106		106		106		106		106		106		106	

MEN'S ARMY SUB-SERIES WORK SPACE

STATISTICS FOR VARIABLES 9 THROUGH 16

	9 BENT TORSO HEIGHT		10 BENT TORSO BREADTH		11 KNEELING HEIGHT		12 KNEELING LEG LENGT		13 BENT KNEE HT SUPIN		14 HORIZ LG K NEES BENT		15 WEIGHT-NUDE		16 STATURE-NUDE	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	1203.0	5136	378.0	5142	1172.0	5068	572.0	5068	417.0	5159	1486.0	5251	1025.0	5068	1562.0	5159
2ND SMALLEST	1231.0	5283	387.0	5184	1179.0	5120	597.0	5159	436.0	5107	1490.0	5221	1173.0	5184	1586.0	5068
3RD SMALLEST	1236.0	5221	398.0	5105	1187.0	5159	617.0	5210	438.0	5111	1492.0	5068	1180.0	5199	1599.0	5120
4TH SMALLEST	1237.0	5252	403.0	5249	1221.0	5150	623.0	5221	438.0	5186	1502.0	5170	1185.0	5170	1634.0	5170
5TH SMALLEST	1257.0	5208	403.0	5068	1226.0	5283	636.0	5178	441.0	5068	1502.0	5120	1200.0	5207	1635.0	5077
6TH SMALLEST	1258.0	5147	409.0	5120	1226.0	5077	641.0	5170	441.0	5077	1509.0	5159	1218.0	5120	1636.0	5221
7TH SMALLEST	1262.0	5134	412.0	5278	1226.0	5194	643.0	5107	449.0	5104	1513.0	5283	1225.0	5104	1638.0	5283
8TH SMALLEST	1264.0	5179	418.0	5143	1232.0	5271	645.0	5234	451.0	5194	1514.0	5184	1235.0	5159	1653.0	5148
9TH SMALLEST	1274.0	5210	419.0	5215	1232.0	5209	648.0	5111	456.0	5084	1519.0	5271	1283.0	5203	1660.0	5136
XTH SMALLEST	1275.0	5277	419.0	5208	1232.0	5206	649.0	5208	459.0	5112	1521.0	5200	1283.0	5142	1663.0	5194
******																
XTH LARGEST	1478.0	5207	474.0	5214	1355.0	5270	742.0	5269	529.0	5141	1716.0	5142	1855.0	5270	1830.0	5155
9TH LARGEST	1478.0	5155	475.0	5198	1361.0	5138	747.0	5244	530.0	5185	1718.0	5048	1863.0	5094	1833.0	5270
8TH LARGEST	1483.0	5267	477.0	5085	1361.0	5187	749.0	5050	531.0	5050	1718.0	5104	1870.0	5156	1837.0	5232
7TH LARGEST	1493.0	5138	480.0	5048	1361.0	5232	753.0	5048	533.0	5259	1727.0	5095	1895.0	5269	1846.0	5048
6TH LARGEST	1493.0	5185	483.0	5094	1372.0	5048	753.0	5118	536.0	5243	1737.0	5267	1900.0	5232	1849.0	5067
5TH LARGEST	1501.0	5251	484.0	5269	1373.0	5257	753.0	5232	539.0	5270	1743.0	5084	1955.0	5244	1851.0	5138
4TH LARGEST	1514.0	5134	489.0	5244	1377.0	5067	757.0	5067	541.0	5067	1743.0	5257	1960.0	5118	1855.0	5187
3RD LARGEST	1519.0	5067	492.0	5114	1377.0	5085	761.0	5270	542.0	5236	1747.0	5085	2003.0	5085	1865.0	5244
2ND LARGEST	1522.0	5244	498.0	5083	1396.0	5244	762.0	5138	549.0	5267	1748.0	5187	2110.0	5083	1876.0	5257
1ST LARGEST	1527.0	5187	518.0	5222	1413.0	5267	789.0	5257	549.0	5244	1751.0	5083	2203.0	5222	1930.0	5267
THE MEAN VALUE	1372.76		447.22		1291.83		693.58		490.57		1611.99		1532.42		1740.88	
STD. DEVIATION	72.74		22.48		45.55		36.39		26.87		67.07		216.74		64.36	
COFF/VARIATION	5.30		5.03		3.53		5.25		5.48		4.16		14.14		3.70	
VETA ONE	.06		-.15		.02		-.27		-.06		.20		.56		.04	
VETA TWO	2.37		4.03		2.97		3.57		2.68		2.29		3.17		3.22	
(N-20)-AVG EST	1372.28		447.51		1291.37		693.39		490.71		1610.17		1521.10		1740.54	
(N-20)-S.D.EST	77.94		20.12		45.61		35.30		27.39		72.60		217.27		62.79	
PCT DIFF/MEANS	1.		-1.		1.		-1.		-1.		3.		5.		0.	
PCT DIF/ST DVS	-7.		12.		-0.		3.		-2.		-8.		-0.		2.	
SIZE OF SAMPLE	106		106		106		106		106		106		106		106	

MEN'S ARMY SUB-SERIES WORK SPACE

A SUMMARY OF THE MATERIAL ALREADY PRESENTED EITHER ON THE PRECEDING PAGES OR ON THE PUNCHED RANGE CARDS

NO.	VARIABLE NAME	MEAN	STD DEV	V-I	V-II	V	DELM	DELS	N	---THE RANGE CARD VALUES--- MINIMUM	MIN	MAX	AVG	INTV1	INTV2	CF1	CF2
1	OVERHEAD REACH HT	2151.05	94.16	-.09	3.16	4.4%	-.8	.7	106	1855.0	1842.5	2392.0	2151.0	20.00	15.00	.10000	.39370
2	FUNCTIONAL REACH	797.51	41.18	-.17	2.87	5.2%	-1.7	2.2	106	691.0	687.5	882.0	798.0	10.00	5.00	.10000	.39370
3	FUNCT REACH EXTEND	918.64	52.21	.27	2.74	5.7%	3.5	-1.7	106	785.0	777.5	1045.0	919.0	10.00	10.00	.10000	.39370
4	OVERHEAD REACH SIT	1368.79	58.50	-.04	3.82	4.3%	.1	7.1	106	1189.0	1187.5	1538.0	1369.0	15.00	10.00	.10000	.39370
5	FUNCTIONAL LEG LN	1185.51	52.38	.11	2.65	4.4%	2.1	-5.1	106	1052.0	1047.5	1316.0	1186.0	10.00	10.00	.10000	.39370
6	WEIGHT	1590.98	218.26	.59	3.17	13.7%	5.6	-.9	106	1075.0	1072.5	2263.0	1591.0	50.00	25.00	.10000	.39370
7	STATURE	1779.48	62.55	.06	3.26	3.5%	.8	2.6	106	1612.0	1607.5	1964.0	1779.0	15.00	10.00	.10000	.39370
8	OVERHEAD REACH BRD	384.99	20.55	.09	2.83	5.3%	.0	-.5	106	336.0	335.5	441.0	385.0	5.00	3.00	.10000	.39370
9	BENT TORSO HEIGHT	1372.76	72.74	.00	2.37	5.3%	.6	-6.7	106	1203.0	1197.5	1527.0	1373.0	15.00	10.00	.10000	.39370
10	BENT TORSO BREADTH	447.22	22.48	-.15	4.03	5.0%	-1.5	11.7	106	378.0	377.5	516.0	447.0	5.00	3.00	.10000	.39370
11	KNEELING HEIGHT	1291.88	45.55	.02	2.97	3.5%	1.1	-.1	106	1172.0	1167.5	1413.0	1292.0	10.00	5.00	.10000	.39370
12	KNEELING LEG LENGT	693.58	36.39	-.27	3.57	5.2%	-1.1	3.1	106	572.0	567.5	789.0	694.0	10.00	5.00	.10000	.39370
13	BENT KNEE HT SUPIN	490.57	26.87	-.06	2.68	5.5%	-.5	-1.9	106	417.0	416.5	549.0	491.0	5.00	3.00	.10000	.39370
14	HORI LG KNEES BENT	1611.99	67.07	.20	2.29	4.2%	2.5	-7.6	106	1486.0	1477.5	1751.0	1612.0	10.00	10.00	.10000	.39370
15	WEIGHT-NUDE	1532.42	216.74	.56	3.17	14.1%	5.2	-.2	106	1025.0	1022.5	2203.0	1532.0	50.00	25.00	.10000	.39370
16	STATURE-NUDE	1740.88	64.36	.04	3.22	3.7%	.4	2.5	106	1562.0	1557.5	1930.0	1741.0	15.00	10.00	.10000	.39370

C-3. XVAL TABLES FOR THE HEAD AND FACE SUBSERIES

STATISTICS FOR VARIABLES 1 THROUGH 8

	1 SAGITTAL ARC VALUE	SBJCT	2 BITRON-CORONAL ARC VALUE	SBJCT	3 BITRON-FRONTAL ARC VALUE	SBJCT	4 BITRON-MENTON ARC VALUE	SBJCT	5 BIT-SUBMANDIBLR ARC VALUE	SBJCT	6 GLABELLA TO WALL VALUE	SBJCT	7 SELLION TO WALL VALUE	SBJCT	8 PRONASALE TO WALL VALUE	SBJCT
1ST SMALLEST	306.0	5185	316.0	5271	265.0	5220	283.0	5163	259.0	5162	179.0	5194	177.0	5194	201.0	5194
2ND SMALLEST	314.0	5201	324.0	5252	270.0	5163	286.0	5179	262.0	5109	181.0	5185	179.0	5185	207.0	5241
3RD SMALLEST	317.0	5268	315.0	5220	272.0	5241	286.0	5054	264.0	5082	182.0	5201	180.0	5208	207.0	5201
4TH SMALLEST	320.0	5210	316.0	5057	274.0	5215	287.0	5209	266.0	5235	183.0	5098	182.0	5220	208.0	5220
5TH SMALLEST	327.0	5199	316.0	5165	275.0	5105	287.0	5165	266.0	5207	184.0	5220	183.0	5090	209.0	5226
6TH SMALLEST	328.0	5209	321.0	5210	276.0	5252	290.0	5201	267.0	5201	185.0	5208	184.0	5201	210.0	5185
7TH SMALLEST	330.0	5182	322.0	5230	276.0	5153	291.0	5097	267.0	5097	185.0	5225	184.0	5199	212.0	5199
8TH SMALLEST	330.0	5160	323.0	5245	276.0	5097	292.0	5160	268.0	5185	185.0	5199	185.0	5220	212.0	5170
9TH SMALLEST	330.0	5189	324.0	5185	280.0	5224	292.0	5089	268.0	5153	185.0	5089	185.0	5145	212.0	5148
XTH SMALLEST	331.0	5226	324.0	5162	280.0	5201	292.0	5098	269.0	5215	187.0	5259	186.0	5069	213.0	5235
******																
XTH LARGEST	368.0	5244	359.0	5126	308.0	5098	327.0	5240	300.0	5214	207.0	5234	204.0	5114	232.0	5200
9TH LARGEST	369.0	5210	359.0	5240	309.0	5114	328.0	5104	302.0	5210	208.0	5269	205.0	5209	232.0	5244
8TH LARGEST	370.0	5258	360.0	5061	310.0	5234	328.0	5114	305.0	5257	208.0	5277	206.0	5250	232.0	5258
7TH LARGEST	373.0	5234	361.0	5200	310.0	5250	328.0	5201	306.0	5147	209.0	5064	208.0	5270	233.0	5126
6TH LARGEST	374.0	5192	361.0	5270	310.0	5269	330.0	5232	307.0	5220	209.0	5250	207.0	5254	233.0	5231
5TH LARGEST	379.0	5106	361.0	5279	312.0	5214	332.0	5198	308.0	5081	210.0	5231	208.0	5064	234.0	5277
4TH LARGEST	380.0	5270	362.0	5165	315.0	5200	334.0	5192	308.0	5193	211.0	5258	209.0	5231	237.0	5270
3RD LARGEST	383.0	5250	365.0	5231	315.0	5277	339.0	5214	308.0	5234	211.0	5270	211.0	5277	237.0	5279
2ND LARGEST	389.0	5267	369.0	5269	316.0	5160	340.0	5061	309.0	5270	215.0	5267	215.0	5081	239.0	5267
1ST LARGEST	398.0	5164	372.0	5232	317.0	5232	342.0	5270	316.0	5192	217.0	5081	216.0	5267	243.0	5081
THE MEAN VALUE	348.03		341.19		293.15		310.96		286.25		196.38		194.86		222.06	
STD. DEVIATION	14.99		12.05		10.71		12.99		12.84		7.15		7.05		7.49	
COEF/VARIATION	4.31		3.71		3.65		4.18		4.49		3.65		3.62		3.37	
VETA ONE	.12		-.14		-.03		-.02		.04		.37		.32		.07	
VETA TWO	3.74		2.62		2.74		2.39		2.20		3.42		3.75		3.08	
(N-2.)-AVG EST	347.52		341.35		293.09		311.16		286.13		196.87		194.68		221.96	
(N-2D)-S.D.EST	13.91		13.07		10.78		12.87		14.43		6.30		6.10		7.52	
PCT DIFF/MEANS	0.		-1.		0.		-1.		1.		3.		3.		0.	
PCT DIF/ST DVS	8.		-3.		-1.		-0.		-11.		12.		14.		-0.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

STATISTICS FOR VARIABLES 9 THROUGH 16

	9 SUBNASALE TO WALL		10 LIP PROTR US'N-WALL		11 MENTON TO WALL		12 ECTOCANTH US-WALL		13 TRAGION T O WALL		14 BITRAGION BREADTH		15 HEAD HT/T RAGN-VERT		16 ECTOCANTH US-VERTEX	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	192.0	5194	188.0	5241	176.0	5241	158.0	5199	82.0	5199	121.0	5162	115.0	5226	89.0	5268
2ND SMALLEST	193.0	5241	190.0	5261	182.0	5194	158.0	5096	88.0	5186	123.0	5158	119.0	5266	95.0	5065
3RD SMALLEST	193.0	5220	191.0	5220	185.0	5220	160.0	5220	89.0	5194	124.0	5072	120.0	5185	97.0	5257
4TH SMALLEST	194.0	5201	194.0	5240	185.0	5140	162.0	5194	90.0	5268	125.0	5209	122.0	5282	97.0	5166
5TH SMALLEST	196.0	5220	195.0	5220	187.0	5186	163.0	5220	91.0	5145	125.0	5187	122.0	5057	97.0	5089
6TH SMALLEST	196.0	5199	195.0	5170	187.0	5135	163.0	5261	93.0	5223	125.0	5073	123.0	5271	98.0	5282
7TH SMALLEST	196.0	5170	195.0	5135	187.0	5105	163.0	5100	93.0	5208	125.0	5082	123.0	5257	99.0	5245
8TH SMALLEST	196.0	5138	196.0	5199	188.0	5207	163.0	5145	93.0	5201	126.0	5201	123.0	5245	99.0	5185
9TH SMALLEST	199.0	5148	196.0	5194	188.0	5136	164.0	5268	93.0	5182	126.0	5105	123.0	5147	99.0	5141
XTH SMALLEST	199.0	5145	197.0	5145	188.0	5111	164.0	5165	94.0	5192	127.0	5185	123.0	5089	99.0	5072
******																
XTH LARGEST	219.0	5216	222.0	5231	218.0	5057	185.0	5065	113.0	5245	142.0	5232	143.0	5064	120.0	5208
9TH LARGEST	219.0	5277	223.0	5257	219.0	5231	186.0	5126	114.0	5136	143.0	5168	144.0	5208	121.0	5267
8TH LARGEST	220.0	5231	224.0	5126	220.0	5064	187.0	5191	114.0	5191	143.0	5224	145.0	5088	122.0	5066
7TH LARGEST	222.0	5126	225.0	5198	222.0	5126	187.0	5256	114.0	5269	143.0	5234	145.0	5245	123.0	5241
6TH LARGEST	223.0	5065	226.0	5216	222.0	5198	188.0	5258	115.0	5126	144.0	5249	145.0	5256	124.0	5088
5TH LARGEST	223.0	5080	226.0	5080	223.0	5080	188.0	5277	116.0	5256	145.0	5121	146.0	5168	124.0	5192
4TH LARGEST	223.0	5207	230.0	5065	225.0	5065	190.0	5269	117.0	5270	146.0	5233	146.0	5244	127.0	5240
3RD LARGEST	227.0	5270	235.0	5279	226.0	5279	190.0	5270	118.0	5065	147.0	5231	146.0	5270	128.0	5270
2ND LARGEST	230.0	5279	236.0	5273	230.0	5270	195.0	5061	119.0	5267	149.0	5065	151.0	5234	130.0	5234
1ST LARGEST	233.0	5081	239.0	5061	236.0	5081	195.0	5267	120.0	5081	149.0	5191	154.0	5232	133.0	5232
THE MEAN VALUE	208.60		209.09		202.16		175.02		103.23		135.05		133.88		110.38	
STD. DEVIATION	7.83		10.00		11.13		7.40		7.13		5.88		6.79		7.94	
COFF/VARIATION	3.75		4.78		5.50		4.27		6.91		4.36		5.07		7.19	
VETA ONE	.36		.51		.45		.12		-.05		-.04		.03		.22	
VETA TWO	3.47		3.29		3.09		3.12		3.09		2.03		3.47		3.14	
(N-20)-AVG EST	208.44		208.56		201.54		174.91		103.21		135.09		133.88		110.22	
(N-20)-S.D.EST	7.22		9.79		11.13		7.00		6.99		6.09		6.11		7.70	
PCT DIFF/MEANS	3.		5.		6.		2.		3.		-1.		0.		2.	
PCT DIF/ST DVS	8.		2.		-0.		7.		2.		-3.		11.		3.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

MEN'S ARMY SUB-SERIES HEAD AND FACE

STATISTICS FOR VARIABLES 17 THROUGH 24

	17 GLABELLA TO VERTEX		18 SELLION T O VERTEX		19 PRONASALE TO VERTE		20 SUBNASALE TO VERTE		21 STOMION T O VERTEX		22 MENTON TO VERTEX		23 FACE LENG TH		24 ORINION-M ENTON	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	59.0	5262	76.0	5266	109.0	5198	122.0	5198	144.0	5190	193.0	5198	102.0	5271	165.0	5271
2ND SMALLEST	64.0	5208	79.0	5213	112.0	5208	125.0	5268	146.0	5208	195.0	5266	104.0	5226	166.0	5224
3RD SMALLEST	64.0	5198	80.0	5279	112.0	5069	128.0	5065	150.0	5069	198.0	5182	104.0	5270	167.0	5227
4TH SMALLEST	64.0	5100	80.0	5072	115.0	5259	129.0	5069	152.0	5282	199.0	5271	104.0	5100	168.0	5163
5TH SMALLEST	65.0	5245	81.0	5057	115.0	5126	130.0	5165	152.0	5165	199.0	5166	104.0	5100	169.0	5162
6TH SMALLEST	65.0	5191	82.0	5245	117.0	5141	131.0	5282	154.0	5100	199.0	5065	105.0	5100	171.0	5304
7TH SMALLEST	66.0	5182	82.0	5166	117.0	5072	133.0	5141	155.0	5072	200.0	5282	106.0	5224	171.0	5109
8TH SMALLEST	67.0	5259	82.0	5065	118.0	5215	133.0	5100	155.0	5084	200.0	5104	107.0	5231	172.0	5182
9TH SMALLEST	67.0	5165	82.0	5069	118.0	5165	133.0	5054	155.0	5090	200.0	5084	107.0	5054	174.0	5267
10TH SMALLEST	68.0	5057	83.0	5257	119.0	5182	133.0	5057	157.0	5166	201.0	5165	109.0	5125	174.0	5170
******																
10TH LARGEST	92.0	5084	110.0	5252	147.0	5080	158.0	5073	184.0	5073	220.0	5088	127.0	5094	195.0	5233
9TH LARGEST	92.0	5088	111.0	5148	147.0	5170	159.0	5088	184.0	5241	229.0	5065	128.0	5072	196.0	5277
8TH LARGEST	92.0	5109	112.0	5264	148.0	5121	159.0	5251	184.0	5251	230.0	5148	128.0	5250	197.0	5200
7TH LARGEST	93.0	5241	112.0	5214	148.0	5267	159.0	5267	185.0	5088	230.0	5267	128.0	5252	197.0	5258
6TH LARGEST	93.0	5270	113.0	5250	151.0	5232	160.0	5241	185.0	5148	230.0	5270	129.0	5070	198.0	5251
5TH LARGEST	94.0	5148	114.0	5085	151.0	5241	163.0	5148	189.0	5192	234.0	5073	129.0	5277	198.0	5279
4TH LARGEST	94.0	5192	115.0	5192	153.0	5148	163.0	5254	189.0	5234	234.0	5251	130.0	5219	203.0	5243
3RD LARGEST	94.0	5232	117.0	5234	154.0	5192	164.0	5192	189.0	5207	235.0	5192	130.0	5251	204.0	5081
2ND LARGEST	97.0	5234	118.0	5241	156.0	5234	164.0	5252	190.0	5232	238.0	5240	131.0	5210	206.0	5257
1ST LARGEST	98.0	5240	120.0	5240	168.0	5240	172.0	5240	194.0	5240	240.0	5232	132.0	5240	207.0	5232
THE MEAN VALUE	79.03		96.56		131.44		144.85		168.85		213.36		117.04		185.24	
STD. DEVIATION	8.55		9.98		10.00		9.54		9.98		10.30		5.75		8.50	
COFF/VARIATION	10.82		10.34		8.11		6.59		5.92		4.69		5.77		4.59	
BETA ONE	.06		.24		.43		.22		.23		.30		.07		-.04	
BETA TWO	2.31		2.95		2.85		2.74		2.75		2.80		2.94		3.00	
(N-20)-AVG EST	78.94		96.20		130.94		144.80		168.35		212.80		117.00		185.32	
(N-20)-S.D.EST	9.28		10.72		11.03		10.07		10.10		10.12		6.03		8.23	
PCT DIFF/MEANS	1.		3.		5.		5.		3.		5.		1.		-1.	
PCT DIF/ST D/S	-8.		-7.		-3.		-5.		-1.		-1.		-1.		3.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

MEN'S ARMY SUB-SERIES HEAD AND FACE

STATISTICS FOR VARIABLES 25 THROUGH 32

	25 MINIMUN FRONTAL BR		26 FACE B/BI ZYGOMATIC		27 BIOCULAR BREADTH		28 INTERPUPILLARY DIS		29 NOSE LENGTH		30 NOSE BREADTH		31 MOUTH BRT H/SMILING		32 EAR LENGTH	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	92.0	5163	125.0	5163	87.0	5163	47.0	5235	42.0	5278	28.0	5072	91.0	5163	49.0	5089
2ND SMALLEST	95.0	5226	126.0	5170	91.0	5252	47.0	5226	43.0	5231	29.0	5144	52.0	5226	51.0	5278
3RD SMALLEST	95.0	5197	126.0	5160	91.0	5226	48.0	5163	44.0	5235	30.0	5250	52.0	5089	51.0	5215
4TH SMALLEST	96.0	5170	126.0	5158	91.0	5182	51.0	5060	44.0	5220	30.0	5220	53.0	5233	54.0	5258
5TH SMALLEST	98.0	5224	127.0	5162	92.0	5224	52.0	5249	44.0	5097	31.0	5240	53.0	5201	54.0	5210
6TH SMALLEST	99.0	5230	127.0	5165	92.0	5170	52.0	5100	44.0	5169	31.0	5187	53.0	5132	55.0	5243
7TH SMALLEST	100.0	5271	128.0	5201	92.0	5102	52.0	5148	45.0	5207	31.0	5169	54.0	5256	55.0	5209
8TH SMALLEST	100.0	5193	128.0	5187	92.0	5105	52.0	5097	45.0	5194	32.0	5163	54.0	5054	56.0	5280
9TH SMALLEST	100.0	5153	129.0	5209	93.0	5258	53.0	5170	45.0	5162	31.0	5161	55.0	5170	56.0	5193
XTH SMALLEST	100.0	5136	130.0	5082	94.0	5097	53.0	5236	45.0	5089	31.0	5098	55.0	5097	56.0	5170
******																
XTH LARGEST	122.0	5146	145.0	5104	108.0	5144	65.0	5098	55.0	5240	44.0	5216	74.0	5192	68.0	5208
9TH LARGEST	122.0	5214	145.0	5121	108.0	5140	65.0	5250	55.0	5243	44.0	5242	76.0	5243	68.0	5223
8TH LARGEST	123.0	5196	145.0	5126	108.0	5200	65.0	5259	55.0	5245	45.0	5062	76.0	5244	69.0	5090
7TH LARGEST	123.0	5199	145.0	5145	109.0	5065	65.0	5270	55.0	5277	45.0	5080	77.0	5270	69.0	5097
6TH LARGEST	123.0	5244	145.0	5146	109.0	5196	66.0	5090	56.0	5200	45.0	5147	77.0	5282	70.0	5267
5TH LARGEST	124.0	5106	145.0	5214	109.0	5234	67.0	5104	57.0	5158	45.0	5194	78.0	5072	71.0	5073
4TH LARGEST	124.0	5251	146.0	5168	109.0	5270	68.0	5064	57.0	5251	47.0	5270	79.0	5104	71.0	5126
3RD LARGEST	125.0	5159	147.0	5090	111.0	5268	68.0	5269	58.0	5090	47.0	5279	80.0	5090	71.0	5240
2ND LARGEST	125.0	5277	147.0	5277	112.0	5232	71.0	5081	58.0	5144	48.0	5198	80.0	5136	72.0	5146
1ST LARGEST	127.0	5090	148.0	5159	114.0	5080	73.0	5080	58.0	5210	48.0	5209	81.0	5198	72.0	5187
THE MEAN VALUE	111.29		137.25		101.18		58.92		49.74		37.21		64.71		62.19	
STD. DEVIATION	8.04		5.24		4.94		4.81		3.59		4.75		7.17		4.41	
COFF/VARIATION	7.23		3.81		4.88		8.17		7.22		12.76		11.08		7.09	
VETA ONE	-.15		-.38		-.18		.05		.31		.36		.23		-.27	
VETA TWO	2.19		2.70		3.25		3.17		2.50		2.22		2.34		3.53	
(N-20)-AVG EST	111.45		137.80		101.32		58.90		49.61		37.00		64.51		62.26	
(N-20)-S.D.EST	9.09		5.24		4.53		4.85		3.79		5.35		7.64		3.91	
PCT DIFF/MEANS	-2.		-5.		-3.		0.		3.		4.		3.		-2.	
PCT DIF/ST DVS	-12.		-0.		9.		-1.		-5.		-11.		-6.		13.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

MEN'S ARMY SUB-SERIES HEAD AND FACE

STATISTICS FOR VARIABLES 33 THROUGH 37

	33 EAR BREADTH		34 BIAURICULAR BR		35 HEAD CIRCUMFERENCE		36 HEAD BREADTH		37 HEAD BREATH	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	34.0	5258	157.0	5215	522.0	5194	139.0	5252	176.0	5194
2ND SMALLEST	35.0	5185	160.0	5271	525.0	5226	140.0	5236	181.0	5226
3RD SMALLEST	36.0	5215	162.0	5269	527.0	5226	141.0	5281	181.0	5220
4TH SMALLEST	37.0	5260	165.0	5258	530.0	5241	141.0	5271	181.0	5185
5TH SMALLEST	37.0	5268	165.0	5194	531.0	5236	141.0	5245	183.0	5268
6TH SMALLEST	37.0	5089	165.0	5158	532.0	5163	141.0	5163	183.0	5098
7TH SMALLEST	37.0	5135	166.0	5278	533.0	5201	141.0	5162	184.0	5201
8TH SMALLEST	38.0	5243	166.0	5185	533.0	5185	141.0	5105	186.0	5199
9TH SMALLEST	38.0	5201	167.0	5061	540.0	5271	142.0	5226	187.0	5280
XTH SMALLEST	39.0	5227	167.0	5105	540.0	5082	142.0	5147	188.0	5235
******										
XTH LARGEST	48.0	5141	190.0	5168	580.0	5231	156.0	5156	204.0	5232
9TH LARGEST	48.0	5164	190.0	5268	582.0	5269	156.0	5159	204.0	5269
8TH LARGEST	49.0	5140	190.0	5250	582.0	5277	157.0	5100	206.0	5234
7TH LARGEST	51.0	5060	191.0	5138	583.0	5126	157.0	5126	206.0	5270
6TH LARGEST	51.0	5111	192.0	5269	585.0	5232	157.0	5145	207.0	5004
5TH LARGEST	51.0	5148	196.0	5244	585.0	5244	157.0	5153	208.0	5231
4TH LARGEST	51.0	5192	197.0	5159	588.0	5081	157.0	5201	208.0	5277
3RD LARGEST	51.0	5242	199.0	5234	589.0	5270	157.0	5251	209.0	5258
2ND LARGEST	52.0	5190	200.0	5109	595.0	5267	158.0	5168	210.0	5250
1ST LARGEST	53.0	5187	201.0	5090	601.0	5256	159.0	5259	213.0	5267
THE MEAN VALUE	43.36		178.73		558.75		149.74		194.82	
STD. DEVIATION	3.63		8.71		15.54		4.87		6.54	
COEF/VARIATION	8.37		4.88		2.78		3.25		3.36	
VETA ONE	.21		.18		.11		-.25		.18	
VETA TWO	3.46		2.98		2.94		2.20		3.03	
(N-20)-AVG EST	43.32		178.01		556.65		149.91		194.72	
(N-20)-S.D.EST	3.14		8.61		15.14		5.43		5.06	
PCT DIFF/MEANS	2.		1.		1.		-3.		2.	
PCT DIF/ST DVS	16.		1.		3.		-10.		15.	
SIZE OF SAMPLE	102		102		102		102		102	

MEN'S ARMY SUB-SERIES HEAD AND FACE

A SUMMARY OF THE MATERIAL ALREADY PRESENTED EITHER ON THE PRECEDING PAGES OR ON THE PUNCHED RANGE CARDS

NO.	VARIABLE NAME	MEAN	STD DEV	V-I	V-II	V	DELM	DELS	N	---THE RANGE CARD VALUES--- MINIMUM	MIN	MAX	AVG	INTV1	INTV2	CF1	CF2
1	SAGITTAL ARC	348.03	14.99	.12	3.74	4.3%	3.6	7.8	102	300.0	299.5	388.0	348.0	3.00	2.00	.10000	.39370
2	BIT'ON-CORONAL ARC	341.19	12.65	-.14	2.62	3.7%	-1.3	-3.2	102	310.0	309.5	372.0	341.0	3.00	2.00	.10000	.39370
3	BIT'ON-FRONTAL ARC	293.13	10.71	-.03	2.74	3.7%	.4	-.7	102	265.0	263.5	317.0	293.0	2.00	2.00	.10000	.39370
4	BITR'ON-MENTON ARC	310.98	12.99	-.02	2.39	4.2%	-.8	-7.7	102	263.0	281.5	342.0	311.0	3.00	2.00	.10000	.39370
5	BIT-SUBMANDBLR ARC	286.25	12.84	.04	2.20	4.5%	.8	-11.0	102	259.0	257.5	318.0	286.0	3.00	2.00	.10000	.39370
6	GLABELLA TO WALL	196.08	7.15	.37	3.42	3.6%	3.3	12.3	102	179.0	178.5	217.0	196.0	2.00	1.00	.10000	.39370
7	SELLION TO WALL	194.86	7.05	.32	3.79	3.6%	2.9	14.5	102	177.0	176.5	216.0	195.0	2.00	1.00	.10000	.39370
8	PRONASALE TO WALL	222.00	7.49	.07	3.08	3.4%	.5	-.4	102	201.0	200.5	243.0	222.0	2.00	1.00	.10000	.39370
9	SUBNASALE TO WALL	208.68	7.83	.38	3.47	3.8%	3.3	8.4	102	192.0	191.5	233.0	209.0	2.00	1.00	.10000	.39370
10	LIP PROTRUS'N-WALL	209.09	10.01	.51	3.29	4.8%	5.4	6.1	102	188.0	187.5	239.0	209.0	2.00	2.00	.10000	.39370
11	MENTON TO WALL	202.16	11.13	.45	3.09	5.5%	5.6	-.0	102	176.0	175.5	236.0	202.0	3.00	2.00	.10000	.39370
12	ECTOCANTHUS-WALL	175.02	7.46	.12	3.12	4.3%	1.5	6.7	102	158.0	157.5	195.0	175.0	2.00	1.00	.10000	.39370
13	TRAGION TO WALL	103.23	7.13	-.05	3.09	6.9%	.3	2.0	102	82.0	81.5	126.0	103.0	2.00	1.00	.10000	.39370
14	BITRAGION BREADTH	135.05	5.86	-.04	2.63	4.4%	-.6	-3.5	102	121.0	120.5	149.0	135.0	1.00	1.00	.10000	.39370
15	HEAD HT/TRAGN-VERT	133.88	8.79	.03	3.47	5.1%	.1	11.2	102	115.0	114.5	154.0	134.0	2.00	1.00	.10000	.39370
16	ECTOCANTHUS-VERTEX	116.38	7.94	.22	3.14	7.2%	2.1	5.2	102	89.0	88.5	133.0	116.0	2.00	1.00	.10000	.39370
17	GLABELLA TO VERTEX	79.03	8.55	.00	2.30	10.8%	1.0	-7.8	102	59.0	58.5	98.0	79.0	2.00	1.00	.10000	.39370
18	SELLION TO VERTEX	96.56	9.98	.24	2.55	10.3%	2.0	-6.9	102	78.0	77.5	125.0	97.0	2.00	1.00	.10000	.39370
19	PRONASALE TO VERTE	131.44	10.66	.43	2.65	8.1%	4.5	-3.5	102	109.0	107.5	163.0	131.0	2.00	2.00	.10000	.39370
20	SUBNASALE TO VERTE	144.85	9.54	.22	2.74	6.6%	2.5	-5.3	102	122.0	121.5	172.0	145.0	2.00	2.00	.10000	.39370
21	STOMION TO VERTEX	168.65	9.98	.23	2.75	5.9%	2.9	-.8	102	144.0	143.5	194.0	169.0	2.00	2.00	.10000	.39370
22	MENTON TO VERTEX	213.30	10.06	.36	2.86	4.7%	4.8	-1.2	102	190.0	189.5	240.0	213.0	2.00	2.00	.10000	.39370
23	FACE LENGTH	117.04	6.75	.07	2.54	5.8%	.6	-1.2	102	102.0	101.5	132.0	117.0	2.00	1.00	.10000	.39370
24	ORINION-MENTON	185.24	8.51	-.04	3.66	4.6%	-1.0	3.4	102	165.0	164.5	207.0	185.0	2.00	1.00	.10000	.39370
25	MINIMUN FRONTAL BR	111.29	8.04	-.15	2.19	7.2%	-1.7	-11.0	102	92.0	91.5	127.0	111.0	2.00	1.00	.10000	.39370
26	FACE B/BIZYGOMATIC	137.59	5.24	-.38	2.70	3.8%	-4.9	-.1	102	125.0	124.5	148.0	138.0	1.00	1.00	.10000	.39370
27	BIOCULAR BREADTH	101.16	4.94	-.18	3.25	4.9%	-3.1	8.9	102	87.0	86.5	114.0	101.0	1.00	1.00	.10000	.39370
28	INTERPUPILLARY DIS	58.92	4.81	.05	3.17	8.2%	.4	-.8	102	47.0	46.5	73.0	59.0	1.00	1.00	.10000	.39370
29	NOSE LENGTH	49.74	3.59	.31	2.50	7.2%	3.3	-5.2	102	42.0	41.5	58.0	50.0	1.00	1.00	.10000	.39370
30	NOSE BREADTH	37.22	4.75	.30	2.22	12.8%	3.0	-11.2	102	28.0	27.5	48.0	37.0	1.00	1.00	.10000	.39370
31	MOUTH BRTH/SMILING	64.71	7.17	.23	2.34	11.1%	2.5	-6.2	102	51.0	50.5	81.0	65.0	2.00	1.00	.10000	.39370
32	EAR LENGTH	62.19	4.41	-.27	3.53	7.1%	-1.8	12.8	102	49.0	48.5	72.0	62.0	1.00	1.00	.10000	.39370
33	EAR BREADTH	43.38	3.63	.21	3.45	8.4%	2.1	19.7	102	34.0	33.5	53.0	43.0	1.00	1.00	.10000	.39370
34	BIAURICULAR BR	176.73	8.71	.18	2.98	4.9%	1.3	1.6	102	157.0	156.5	201.0	179.0	2.00	1.00	.10000	.39370
35	HEAD CIRCUMFERENCE	556.75	15.54	.11	2.94	2.8%	.7	2.0	102	522.0	521.5	601.0	559.0	3.00	2.00	.10000	.39370
36	HEAD BREADTH	149.74	4.87	-.29	2.20	3.3%	-3.3	-10.3	102	139.0	138.5	159.0	150.0	1.00	1.00	.10000	.39370
37	HEAD BREATH	194.82	6.54	.18	3.63	3.4%	1.8	15.5	102	176.0	175.5	213.0	195.0	2.00	1.00	.10000	.39370

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C-4. XVAL TABLES FOR THE STATIC STRENGTH SUBSERIES

STATISTICS FOR VARIABLES 1 THROUGH 8

	1 STRNGTH/2 H 38CM M1		2 STRNGTH/2 H 38CM M2		3 STRNGTH/2 H 38CM P1		4 STRNGTH/2 H 38CM P2		5 STRNGTH/2 H 50CM M1		6 STRNGTH/2 H 50CM M2		7 STRNGTH/2 H 50CM P1		8 STRNGTH/2 H 50CM P2	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	1433.0	5025	1483.0	5033	1566.0	5218	1660.0	5163	1491.0	5253	1569.0	5189	1562.0	5253	1733.0	5183
2ND SMALLEST	1463.0	5125	1528.0	5183	1579.0	5125	1746.0	5215	1535.0	5092	1602.0	5033	1683.0	5035	1777.0	5189
3RD SMALLEST	1471.0	5218	1585.0	5167	1628.0	5025	1758.0	5125	1553.0	5033	1619.0	5183	1720.0	5092	1794.0	5215
4TH SMALLEST	1525.0	5164	1599.0	5195	1672.0	5190	1820.0	5180	1592.0	5206	1658.0	5215	1738.0	5033	1836.0	5253
5TH SMALLEST	1530.0	5034	1641.0	5034	1720.0	5035	1906.0	5093	1615.0	5189	1663.0	5253	1762.0	5189	1843.0	5104
6TH SMALLEST	1585.0	5274	1619.0	5215	1779.0	5183	1920.0	5254	1627.0	5035	1686.0	5104	1770.0	5183	1867.0	5034
7TH SMALLEST	1594.0	5183	1634.0	5125	1780.0	5115	1950.0	5108	1632.0	5183	1723.0	5034	1811.0	5034	1869.0	5035
8TH SMALLEST	1595.0	5190	1647.0	5180	1824.0	5189	1964.0	5033	1656.0	5034	1735.0	5205	1907.0	5215	1902.0	5033
9TH SMALLEST	1635.0	5215	1695.0	5238	1845.0	5167	1970.0	5253	1698.0	5215	1746.0	5035	1910.0	5206	1905.0	5205
XTH SMALLEST	1637.0	5189	1767.0	5137	1887.0	5215	1980.0	5238	1701.0	5167	1763.0	5092	1926.0	5093	1945.0	5188
******																
XTH LARGEST	2908.0	5265	2902.0	5012	3065.0	5060	3043.0	5099	2803.0	5091	2797.0	5275	3042.0	5181	3145.0	5130
9TH LARGEST	2922.0	5261	2975.0	5240	3129.0	5208	3102.0	5060	2860.0	5275	2875.0	5181	3072.0	5248	3146.0	5161
8TH LARGEST	2961.0	5012	2996.0	5131	3186.0	5122	3116.0	5248	2920.0	5099	2881.0	5099	3239.0	5212	3163.0	5248
7TH LARGEST	3031.0	5275	3008.0	5275	3192.0	5114	3150.0	5275	2978.0	5114	3033.0	5130	3270.0	5208	3170.0	5212
6TH LARGEST	3032.0	5208	3009.0	5060	3269.0	5248	3267.0	5131	3028.0	5218	3052.0	5208	3274.0	5131	3227.0	5208
5TH LARGEST	3073.0	5131	3140.0	5114	3270.0	5131	3333.0	5122	3063.0	5131	3069.0	5248	3398.0	5114	3324.0	5264
4TH LARGEST	3093.0	5122	3205.0	5122	3280.0	5275	3405.0	5114	3092.0	5208	3169.0	5237	3400.0	5237	3330.0	5237
3RD LARGEST	3150.0	5248	3240.0	5132	3294.0	5130	3421.0	5132	3190.0	5122	3252.0	5131	3403.0	5218	3351.0	5131
2ND LARGEST	3280.0	5139	3243.0	5139	3463.0	5139	3456.0	5139	3227.0	5051	3287.0	5114	3443.0	5122	3513.0	5051
1ST LARGEST	3455.0	5051	3443.0	5051	3565.0	5051	3589.0	5051	3234.0	5237	3389.0	5051	3603.0	5051	3664.0	5114
THE MEAN VALUE	2264.92		2290.27		2451.81		2516.32		2250.93		2274.25		2472.02		2485.49	
STD. DEVIATION	454.14		420.11		459.20		399.98		401.14		398.18		430.48		411.47	
COFF/VARIATION	20.05		18.34		18.73		15.93		17.82		17.51		17.41		16.55	
VETA ONE	.21		.36		.21		.33		.35		.55		.37		.48	
VETA TWO	2.41		2.82		2.30		2.94		2.76		3.04		2.84		2.90	
(N-20)-AVG EST	2251.82		2271.84		2446.15		2493.84		2232.90		2248.85		2455.82		2463.61	
(N-20)-S.D.EST	488.24		414.49		501.56		394.07		398.17		393.05		423.94		409.75	
PCT DIFF/MEANS	3.		4.		2.		4.		5.		6.		4.		5.	
PCT DIF/ST DVS	-7.		1.		-8.		1.		1.		1.		2.		0.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

MEN'S ARMY SUB-SERIES STATIC MUSCLE STRENGTH

STATISTICS FOR VARIABLES 9 THROUGH 16

	9 STRGTH/2H 100CM M1		10 STRGTH/2H 100CM M2		11 STRGTH/2H 100CM P1		12 STRGTH/2H 100CM P2		13 STRGTH/2H 150CM M1		14 STRGTH/2H 150CM M2		15 STRGTH/2H 150CM P1		16 STRGTH/2H 150CM P2	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	876.0	5101	830.0	5204	945.0	5101	904.0	5101	820.0	5101	792.0	5101	919.0	5011	903.0	5101
2ND SMALLEST	879.0	5183	838.0	5183	1034.0	5041	938.0	5204	829.0	5167	792.0	5011	946.0	5167	906.0	5011
3RD SMALLEST	979.0	5041	843.0	5161	1089.0	5104	990.0	5183	842.0	5011	835.0	5093	960.0	5101	962.0	5093
4TH SMALLEST	986.0	5092	924.0	5195	1103.0	5183	1042.0	5195	871.0	5254	904.0	5104	1000.0	5104	1020.0	5104
5TH SMALLEST	993.0	5104	966.0	5104	1124.0	5254	1059.0	5011	874.0	5253	906.0	5189	1049.0	5180	1040.0	5189
6TH SMALLEST	1004.0	5195	988.0	5011	1131.0	5011	1072.0	5104	899.0	5183	928.0	5253	1055.0	5183	1047.0	5180
7TH SMALLEST	1008.0	5128	989.0	5189	1178.0	5189	1123.0	5189	909.0	5104	930.0	5183	1092.0	5100	1088.0	5253
8TH SMALLEST	1020.0	5189	1060.0	5035	1178.0	5128	1135.0	5035	941.0	5100	946.0	5180	1097.0	5189	1114.0	5238
9TH SMALLEST	1042.0	5254	1066.0	5260	1184.0	5167	1168.0	5260	1013.0	5093	988.0	5100	1118.0	5093	1141.0	5100
XTH SMALLEST	1043.0	5126	1087.0	5128	1198.0	5204	1191.0	5145	1023.0	5180	1010.0	5033	1163.0	5254	1142.0	5183
******																
XTH LARGEST	1959.0	5152	1957.0	5239	2107.0	5239	2103.0	5132	2039.0	5275	2080.0	5151	2211.0	5239	2287.0	5131
9TH LARGEST	1981.0	5132	1963.0	5124	2124.0	5197	2116.0	5197	2045.0	5237	2132.0	5266	2228.0	5124	2341.0	5124
8TH LARGEST	1994.0	5124	1981.0	5152	2128.0	5122	2128.0	5265	2151.0	5124	2182.0	5265	2244.0	5131	2346.0	5265
7TH LARGEST	2018.0	5239	2005.0	5132	2167.0	5131	2137.0	5122	2198.0	5266	2223.0	5124	2296.0	5130	2364.0	5266
6TH LARGEST	2077.0	5122	2019.0	5265	2198.0	5060	2146.0	5152	2199.0	5130	2247.0	5246	2338.0	5265	2452.0	5246
5TH LARGEST	2099.0	5060	2062.0	5122	2222.0	5237	2150.0	5151	2214.0	5265	2345.0	5218	2558.0	5246	2541.0	5139
4TH LARGEST	2112.0	5265	2131.0	5060	2230.0	5265	2295.0	5060	2330.0	5218	2365.0	5139	2590.0	5266	2565.0	5122
3RD LARGEST	2122.0	5237	2175.0	5237	2235.0	5152	2389.0	5237	2334.0	5122	2407.0	5122	2594.0	5218	2697.0	5218
2ND LARGEST	2144.0	5246	2355.0	5246	2308.0	5246	2498.0	5246	2372.0	5246	2622.0	5130	2614.0	5122	2775.0	5130
1ST LARGEST	2485.0	5051	2480.0	5051	2588.0	5051	2596.0	5051	2644.0	5264	3266.0	5264	3187.0	5264	3642.0	5264
THE MEAN VALUE	1467.58		1454.20		1596.03		1594.98		1480.59		1515.65		1642.60		1672.86	
STD. DEVIATION	323.61		329.72		330.51		350.95		394.40		437.27		421.91		452.82	
COFF/VARIATION	22.05		22.67		20.71		22.00		26.64		28.85		25.69		27.07	
VETA ONE	.55		.57		.51		.47		.53		.87		.76		1.06	
VETA TWO	2.91		3.21		2.68		2.80		2.78		4.32		3.75		5.33	
(N-20)-AVG EST	1449.66		1434.26		1577.12		1579.37		1456.99		1484.10		1613.24		1637.30	
(N-20)-S.D.EST	333.67		329.95		352.27		367.88		410.52		435.25		420.55		425.32	
PCT DIFF/MEANS	5.		6.		5.		4.		6.		7.		7.		8.	
PCT DIF/ST DVS	-3.		1.		-6.		-5.		-4.		0.		0.		6.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

STATISTICS FOR VARIABLES 17 THROUGH 24

	17 STRGTH/1H 100CM M1		18 STRGTH/1H 100CM M2		19 STRGTH/1H 100CM P1		20 STRGTH/1H 100CM P2		21 STRNGTH/1 H 45 C M1		22 STRNGTH/1 H 45 C M2		23 STRNGTH/1 H 45 C P1		24 STRNGTH/1 H 45 C P2	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	422.0	5186	395.0	5263	447.0	5180	452.0	5183	344.0	5263	418.0	5019	499.0	5146	482.0	5019
2ND SMALLEST	423.0	5180	402.0	5183	489.0	5183	457.0	5180	422.0	5146	442.0	5263	501.0	5019	559.0	5263
3RD SMALLEST	461.0	5011	404.0	5180	517.0	5101	507.0	5171	446.0	5019	489.0	5113	511.0	5206	572.0	5113
4TH SMALLEST	466.0	5101	462.0	5171	533.0	5011	523.0	5018	452.0	5113	499.0	5183	528.0	5263	573.0	5128
5TH SMALLEST	467.0	5189	476.0	5113	550.0	5189	554.0	5113	457.0	5206	503.0	5128	569.0	5113	602.0	5018
6TH SMALLEST	489.0	5254	477.0	5018	567.0	5254	561.0	5263	471.0	5238	522.0	5146	600.0	5253	614.0	5197
7TH SMALLEST	505.0	5171	518.0	5253	584.0	5253	568.0	5167	510.0	5183	542.0	5197	612.0	5238	651.0	5139
8TH SMALLEST	509.0	5260	523.0	5167	585.0	5167	572.0	5253	552.0	5197	555.0	5018	613.0	5197	662.0	5115
9TH SMALLEST	520.0	5188	530.0	5189	600.0	5018	579.0	5092	564.0	5253	556.0	5195	625.0	5183	670.0	5196
XTH SMALLEST	529.0	5167	532.0	5019	610.0	5188	585.0	5019	594.0	5205	581.0	5196	662.0	5205	685.0	5140
******																
XTH LARGEST	1312.0	5275	1263.0	5218	1497.0	5196	1496.0	5196	1412.0	5208	1463.0	5175	1594.0	5152	1610.0	5261
9TH LARGEST	1342.0	5218	1285.0	5275	1549.0	5239	1510.0	5131	1427.0	5175	1467.0	5099	1617.0	5131	1649.0	5266
8TH LARGEST	1381.0	5175	1341.0	5196	1669.0	5218	1517.0	5218	1429.0	5131	1480.0	5122	1619.0	5218	1658.0	5051
7TH LARGEST	1384.0	5217	1422.0	5246	1733.0	5217	1532.0	5239	1432.0	5228	1491.0	5124	1622.0	5124	1675.0	5099
6TH LARGEST	1385.0	5239	1450.0	5239	1776.0	5265	1601.0	5246	1452.0	5100	1498.0	5218	1641.0	5175	1697.0	5116
5TH LARGEST	1612.0	5246	1520.0	5122	1778.0	5051	1721.0	5122	1498.0	5063	1542.0	5051	1659.0	5208	1717.0	5122
4TH LARGEST	1629.0	5122	1524.0	5175	1786.0	5175	1772.0	5175	1546.0	5124	1547.0	5210	1666.0	5051	1725.0	5210
3RD LARGEST	1673.0	5265	1552.0	5264	1789.0	5246	1782.0	5265	1580.0	5051	1548.0	5060	1707.0	5116	1774.0	5060
2ND LARGEST	1710.0	5051	1640.0	5265	1863.0	5122	1893.0	5051	1613.0	5122	1585.0	5116	1749.0	5264	1784.0	5264
1ST LARGEST	1750.0	5264	1749.0	5051	2187.0	5264	2186.0	5264	1621.0	5116	1669.0	5264	1750.0	5122	1814.0	5218
THE MEAN VALUE	917.40		933.25		1048.74		1077.09		1000.89		1048.91		1146.72		1172.54	
STD. DEVIATION	286.82		282.10		327.70		317.41		307.54		313.87		330.57		334.10	
COFF/VARIATION	31.48		30.23		31.25		29.47		30.73		29.92		28.83		28.49	
VETA ONE	.65		.34		.77		.47		-.09		-.21		-.23		-.14	
VETA TWO	3.49		3.01		3.99		3.85		2.19		2.07		2.14		2.11	
(N-20)-AVG EST	897.63		923.49		1022.71		1067.01		1003.28		1056.10		1153.91		1175.93	
(N-20)-S.D.EST	269.99		276.67		283.75		285.44		343.71		360.70		373.65		377.26	
PCT DIFF/MEANS	7.		4.		9.		4.		-1.		-2.		-2.		-1.	
PCT DIF/ST DVS	7.		2.		15.		11.		-11.		-13.		-12.		-11.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

MEN'S ARMY SUB-SERIES STATIC MUSCLE STRENGTH

STATISTICS FOR VARIABLES 25 THROUGH 32

	25 STRNGTH/1 H 45 S M1		26 STRNGTH/1 H 45 S M2		27 STRNGTH/1 H 45 S P1		28 STRNGTH/1 H 45 S P2		29 STRNGTH/2 H 38CM M1		30 STRNGTH/2 H 38CM M2		31 STRNGTH/2 H 38CM P1		32 STRNGTH/2 H 38CM P2	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	432.0	5189	462.0	5011	502.0	5183	525.0	5205	1022.0	5104	1057.0	5167	1229.0	5167	1280.0	5167
2ND SMALLEST	436.0	5183	490.0	5205	509.0	5117	578.0	5117	1118.0	5011	1091.0	5104	1241.0	5104	1322.0	5104
3RD SMALLEST	443.0	5146	529.0	5117	513.0	5189	582.0	5011	1139.0	5167	1167.0	5126	1320.0	5011	1330.0	5126
4TH SMALLEST	443.0	5117	531.0	5137	525.0	5253	605.0	5189	1291.0	5128	1301.0	5205	1418.0	5128	1549.0	5238
5TH SMALLEST	444.0	5127	533.0	5183	533.0	5127	606.0	5137	1329.0	5145	1351.0	5238	1461.0	5126	1583.0	5205
6TH SMALLEST	467.0	5253	538.0	5018	549.0	5205	619.0	5152	1350.0	5115	1382.0	5011	1483.0	5188	1627.0	5035
7TH SMALLEST	478.0	5019	539.0	5152	556.0	5139	623.0	5018	1367.0	5172	1426.0	5189	1536.0	5146	1640.0	5172
8TH SMALLEST	480.0	5113	555.0	5189	560.0	5019	680.0	5041	1368.0	5126	1430.0	5137	1611.0	5189	1648.0	5011
9TH SMALLEST	485.0	5139	603.0	5019	578.0	5113	697.0	5127	1378.0	5189	1453.0	5172	1613.0	5183	1670.0	5188
XTH SMALLEST	491.0	5205	607.0	5041	584.0	5140	715.0	5139	1382.0	5188	1494.0	5183	1619.0	5145	1675.0	5017
******																
XTH LARGEST	1231.0	5237	1320.0	5217	1373.0	5217	1420.0	5181	2651.0	5181	2604.0	5060	2760.0	5181	2786.0	5152
9TH LARGEST	1253.0	5239	1336.0	5124	1374.0	5047	1420.0	5237	2664.0	5218	2615.0	5051	2813.0	5208	2817.0	5124
8TH LARGEST	1257.0	5175	1336.0	5228	1410.0	5265	1427.0	5124	2693.0	5124	2627.0	5124	2829.0	5152	2827.0	5051
7TH LARGEST	1259.0	5211	1336.0	5239	1443.0	5175	1465.0	5122	2706.0	5051	2628.0	5152	2850.0	5113	2830.0	5060
6TH LARGEST	1260.0	5217	1348.0	5237	1454.0	5239	1468.0	5239	2740.0	5113	2660.0	5261	3023.0	5139	2915.0	5208
5TH LARGEST	1308.0	5205	1356.0	5100	1486.0	5275	1490.0	5175	2740.0	5139	2678.0	5264	3036.0	5218	2919.0	5212
4TH LARGEST	1349.0	5275	1357.0	5265	1499.0	5124	1507.0	5217	2765.0	5264	2681.0	5208	3135.0	5060	2970.0	5122
3RD LARGEST	1438.0	5124	1378.0	5099	1625.0	5218	1570.0	5218	2872.0	5060	2763.0	5122	3143.0	5264	3046.0	5264
2ND LARGEST	1500.0	5099	1414.0	5175	1645.0	5099	1571.0	5099	3035.0	5122	2938.0	5218	3370.0	5099	3300.0	5099
1ST LARGEST	1601.0	5264	1700.0	5264	1841.0	5264	1955.0	5264	3163.0	5099	3246.0	5099	3440.0	5122	3373.0	5218
THE MEAN VALUE	867.17		931.85		998.62		1055.84		1977.71		1994.39		2165.38		2204.35	
STD. DEVIATION	263.05		252.12		289.10		269.25		442.47		406.18		447.63		408.07	
COFF/VARIATION	30.33		27.06		28.96		25.50		22.37		20.37		20.67		18.51	
VETA ONE	.28		.32		.24		.31		.31		.19		.47		.31	
VETA TWO	2.56		2.60		2.61		2.96		2.69		3.06		3.14		3.12	
(N-20)-AVG EST	858.49		924.16		991.46		1050.89		1962.84		1985.80		2145.60		2191.91	
(N-20)-S.D.EST	283.88		272.28		311.49		286.82		468.51		404.44		436.38		399.81	
PCT DIFF/MEANS	3.		3.		2.		2.		3.		2.		5.		3.	
PCT DIF/ST DVS	-7.		-7.		-7.		-6.		-4.		0.		3.		2.	
SIZE OF SAMPLE	102		102		102		102		102		102		102		102	

MEN'S ARMY SUB-SERIES STATIC MUSCLE STRENGTH

STATISTICS FOR VARIABLES 33 THROUGH 38

	33 STRNGTH/2 H 50CM M1		34 STRNGTH/2 H 50CM M2		35 STRNGTH/2 H 50CM P1		36 STRNGTH/2 H 50CM P2		37 WEIGHT		38 STATURE	
	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT	VALUE	SBJCT
1ST SMALLEST	816.0	5167	935.0	5104	899.0	5167	1175.0	5146	850.0	5275	1588.0	5180
2ND SMALLEST	959.0	5183	1041.0	5167	1120.0	5145	1200.0	5167	1200.0	5238	1591.0	5230
3RD SMALLEST	980.0	5145	1076.0	5146	1156.0	5183	1201.0	5145	1220.0	5183	1593.0	5011
4TH SMALLEST	983.0	5011	1100.0	5145	1166.0	5146	1237.0	5104	1220.0	5180	1598.0	5101
5TH SMALLEST	996.0	5104	1121.0	5183	1191.0	5011	1288.0	5011	1225.0	5104	1607.0	5274
6TH SMALLEST	1021.0	5146	1126.0	5011	1234.0	5104	1305.0	5163	1233.0	5101	1620.0	5189
7TH SMALLEST	1122.0	5128	1215.0	5215	1241.0	5017	1348.0	5017	1250.0	5172	1627.0	5041
8TH SMALLEST	1194.0	5092	1232.0	5130	1352.0	5092	1375.0	5130	1270.0	5195	1642.0	5099
9TH SMALLEST	1201.0	5017	1250.0	5189	1353.0	5027	1377.0	5189	1278.0	5011	1651.0	5100
XTH SMALLEST	1217.0	5027	1258.0	5128	1402.0	5253	1420.0	5205	1288.0	5137	1656.0	5091
******												
XTH LARGEST	2114.0	5045	2218.0	5100	2378.0	5197	2524.0	5197	1980.0	5165	1822.0	5246
9TH LARGEST	2168.0	5139	2250.0	5219	2397.0	5099	2525.0	5151	1988.0	5246	1822.0	5275
8TH LARGEST	2205.0	5219	2284.0	5151	2428.0	5219	2530.0	5051	1990.0	5175	1825.0	5012
7TH LARGEST	2305.0	5051	2289.0	5051	2453.0	5051	2714.0	5122	1995.0	5060	1833.0	5173
6TH LARGEST	2335.0	5099	2316.0	5099	2510.0	5264	2720.0	5099	2013.0	5217	1849.0	5017
5TH LARGEST	2352.0	5060	2463.0	5218	2587.0	5066	2746.0	5218	2043.0	5205	1875.0	5239
4TH LARGEST	2625.0	5122	2538.0	5060	2875.0	5122	2762.0	5264	2103.0	5017	1891.0	5265
3RD LARGEST	2662.0	5124	2538.0	5181	3033.0	5124	2911.0	5060	2155.0	5051	1898.0	5264
2ND LARGEST	2769.0	5181	2552.0	5124	3137.0	5181	2916.0	5181	2155.0	5181	1907.0	5130
1ST LARGEST	2996.0	5218	2583.0	5122	3222.0	5216	2993.0	5124	2170.0	5264	1974.0	5051
THE MEAN VALUE	1708.49		1715.21		1886.38		1919.25		1578.37		1740.37	
STD. DEVIATION	384.84		355.09		416.17		401.64		263.78		69.68	
COFF/VARIATION	22.53		20.74		22.13		20.93		16.71		4.00	
VETA ONE	.46		.35		.65		.53		.36		.28	
VETA TWO	3.98		2.85		4.07		3.01		2.54		3.69	
(N-20)-AVG EST	1698.12		1702.02		1861.77		1896.30		1565.46		1739.62	
(N-20)-S.D.EST	341.53		350.72		377.92		387.73		293.70		63.70	
PCT DIFF/MEANS	3.		4.		5.		6.		4.		1.	
PCT DIF/ST DVS	13.		1.		10.		4.		-10.		9.	
SIZE OF SAMPLE	102		102		102		102		102		102	

MEN'S ARMY SUB-SERIES STATIC MUSCLE STRENGTH

A SUMMARY OF THE MATERIAL ALREADY PRESENTED EITHER ON THE PRECEDING PAGES OR ON THE PUNCHED RANGE CARDS

NO.	VARIABLE NAME	MEAN	STD DEV	V-I	V-II	V	DELM	DELS	---THE RANGE CARD VALUES--- N	MINIMUM	MIN	MAX	AVG	INTV1	INTV2	CF1	CF2
1	STRNGTH/2H 38CM M1	2204.92	454.14	.21	2.41	20.1%	2.7	-7.0	102	1433.01397.53455.02265.0				80.00	50.00	.04536	2.20462
2	STRNGTH/2H 38CM M2	2290.27	420.11	.36	2.62	18.3%	4.4	1.4	102	1483.01447.53443.02290.0				80.00	50.00	.04536	2.20462
3	STRNGTH/2H 38CM P1	2451.61	459.20	.21	2.56	18.7%	2.3	-8.4	102	1566.01547.53565.02452.0				80.00	50.00	.04536	2.20462
4	STRNGTH/2H 38CM P2	2510.32	399.96	.33	2.94	15.9%	4.2	1.5	102	1660.01647.53589.02510.0				80.00	50.00	.04536	2.20462
5	STRNGTH/2H 50CM M1	2250.93	401.14	.35	2.70	17.8%	4.5	.7	102	1491.01447.53234.02251.0				80.00	50.00	.04536	2.20462
6	STRNGTH/2H 50CM M2	2274.25	396.18	.55	3.04	17.5%	6.5	1.3	102	1509.01547.53389.02274.0				80.00	50.00	.04536	2.20462
7	STRNGTH/2H 50CM P1	2472.02	430.48	.37	2.84	17.4%	4.3	1.5	102	1562.01547.53603.02472.0				80.00	50.00	.04536	2.20462
8	STRNGTH/2H 50CM P2	2485.49	411.47	.48	2.90	16.6%	5.3	.4	102	1733.01697.53664.02485.0				80.00	50.00	.04536	2.20462
9	STRGTH/2H 100CM M1	1467.58	323.61	.55	2.91	22.1%	5.4	-3.6	102	876.0	847.52485.01468.0			80.00	50.00	.04536	2.20462
10	STRGTH/2H 100CM M2	1454.20	329.72	.57	3.21	22.7%	6.1	1.2	102	830.0	797.52480.01454.0			80.00	50.00	.04536	2.20462
11	STRGTH/2H 100CM P1	1596.03	330.51	.51	2.68	20.7%	5.4	-6.2	102	945.0	897.52588.01596.0			80.00	50.00	.04536	2.20462
12	STRGTH/2H 100CM P2	1594.98	350.95	.47	2.80	22.0%	4.2	-4.6	102	904.0	897.52596.01595.0			80.00	50.00	.04536	2.20462
13	STRGTH/2H 150CM M1	1480.59	394.46	.53	2.78	26.6%	5.7	-3.9	102	820.0	797.52644.01481.0			80.00	50.00	.04536	2.20462
14	STRGTH/2H 150CM M2	1515.05	437.27	.87	4.32	28.9%	7.2	.5	102	792.0	717.53266.01516.0			100.00	80.00	.04536	2.20462
15	STRGTH/2H 150CM P1	1642.60	421.91	.76	3.75	25.7%	7.0	.3	102	919.0	897.53187.01643.0			80.00	50.00	.04536	2.20462
16	STRGTH/2H 150CM P2	1672.86	452.82	1.06	5.33	27.1%	8.4	6.5	102	903.0	877.53642.01673.0			100.00	80.00	.04536	2.20462
17	STRGTH/1H 100CM M1	917.40	288.82	.65	3.49	31.5%	7.3	7.0	102	422.0	417.51750.0	917.0		50.00	30.00	.04536	2.20462
18	STRGTH/1H 100CM M2	933.25	282.14	.34	3.01	30.2%	3.5	2.0	102	395.0	387.51749.0	933.0		50.00	30.00	.04536	2.20462
19	STRGTH/1H 100CM P1	1048.74	327.70	.77	3.99	31.2%	9.2	15.5	102	447.0	397.52187.01049.0			80.00	50.00	.04536	2.20462
20	STRGTH/1H 100CM P2	1077.69	317.41	.47	3.69	29.5%	3.5	11.2	102	452.0	447.52186.01077.0			80.00	50.00	.04536	2.20462
21	STRNGTH/1H 45 C M1	1006.89	307.54	-.09	2.19	30.7%	-.7	-10.5	102	344.0	327.51621.01001.0			50.00	30.00	.04536	2.20462
22	STRNGTH/1H 45 C M2	1048.91	313.87	-.21	2.07	29.9%	-2.0	-13.0	102	410.0	387.51669.01049.0			50.00	30.00	.04536	2.20462
23	STRNGTH/1H 45 C P1	1146.72	330.57	-.23	2.14	28.8%	-1.9	-11.5	102	499.0	477.51750.01147.0			50.00	30.00	.04536	2.20462
24	STRNGTH/1H 45 C P2	1172.54	334.10	-.14	2.11	28.5%	-.9	-11.4	102	482.0	477.51814.01173.0			50.00	30.00	.04536	2.20462
25	STRNGTH/1H 45 S M1	807.17	263.05	.28	2.56	30.3%	3.1	-7.3	102	432.0	422.51601.0	867.0		50.00	25.00	.04536	2.20462
26	STRNGTH/1H 45 S M2	931.85	252.12	.32	2.60	27.1%	2.8	-7.4	102	462.0	447.51700.0	932.0		50.00	30.00	.04536	2.20462
27	STRNGTH/1H 45 S P1	998.62	289.16	.24	2.61	29.0%	2.3	-7.2	102	502.0	477.51841.0	999.0		50.00	30.00	.04536	2.20462
28	STRNGTH/1H 45 S P2	1055.84	269.25	.31	2.96	25.5%	1.7	-6.1	102	525.0	507.51955.01056.0			50.00	30.00	.04536	2.20462
29	STRNGTH/2H 38CM M1	1977.71	442.47	.31	2.69	22.4%	3.2	-3.9	102	1022.0	997.53163.01978.0			80.00	50.00	.04536	2.20462
30	STRNGTH/2H 38CM M2	1994.39	406.18	.19	3.06	20.4%	2.1	.4	102	1057.01047.53246.01994.0				80.00	50.00	.04536	2.20462
31	STRNGTH/2H 38CM P1	2165.38	447.63	.47	3.14	20.7%	4.5	2.6	102	1229.01197.53446.02165.0				80.00	50.00	.04536	2.20462
32	STRNGTH/2H 38CM P2	2204.35	408.47	.31	3.12	18.5%	3.1	2.1	102	1280.01247.53373.02204.0				80.00	50.00	.04536	2.20462
33	STRNGTH/2H 50CM M1	1708.49	384.84	.46	3.98	22.5%	3.0	12.7	102	816.0	797.52996.01708.0			80.00	50.00	.04536	2.20462
34	STRNGTH/2H 50CM M2	1715.21	355.69	.35	2.85	20.7%	3.8	1.4	102	935.0	897.52583.01715.0			80.00	50.00	.04536	2.20462
35	STRNGTH/2H 50CM P1	1860.38	416.17	.65	4.07	22.1%	4.9	10.1	102	899.0	897.53222.01880.0			80.00	50.00	.04536	2.20462
36	STRNGTH/2H 50CM P2	1919.25	401.64	.53	3.01	20.9%	5.9	5.6	102	1175.01147.52993.01919.0				80.00	50.00	.04536	2.20462
37	WEIGHT	1578.37	263.78	.36	2.54	16.7%	4.4	-10.2	102	850.0	837.52170.01578.0			50.00	30.00	.04536	2.20462
38	STATURE	1740.37	69.66	.28	3.69	4.0%	1.2	9.4	102	1588.01587.51974.01740.0				15.00	10.00	.10000	.39370

APPENDIX D

BIVARIATE FREQUENCY TABLES - DATA FOR MALE SOLDIERS

The following pages contain a set of 51 selected bivariate frequency tables based on data from the Army men's subsurvey. All are standard tables. The construction and labelling of these tables followed the procedures used in creating the tables based on the women's data (Churchill, Thomas, Edmund Churchill, John T. McConville, and Robert M. White. 1977. Anthropometry of Women of the U.S. Army--1977, Report No. 3 - Bivariate Frequency Tables. Technical Report No. NATICK/TR-77/028, U.S. Army Natick Research and Development Command, Natick, Massachusetts).

For the reader's convenience, an index of the 51 bivariate frequency tables is provided below.

INDEX OF BIVARIATE TABLES

TABLE 1

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND STATURE

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOTALS
197.75												1			1
195.75															0
193.75									1						1
191.75										1					1
189.75									1		1	1			3
187.75						1			1	1	1			1	5
185.75					1	1		1		1	1				5
183.75					2	1		2	2	1					8
181.75				1	2	3	2	5	2	5					20
179.75			1	4	5	4	1	4	3	2		1			25
177.75			1	2	7	4	7	2	1	2	1	1			28
175.75			1	10	7	8	5	1	1	2		2			37
173.75			4	6	5	8	3	3	2	2					33
171.75		2	3	8	6	3	3	3	2	1					31
169.75		3	2	10	5	3	2	2			1				28
167.75		2	5	7	3	2	3	1	1						29
165.75				9	1										10
163.75		1		2	3	2									8
161.75				1		1	1		1						4
159.75			4	2											6
157.75	1														1
155.75			1												1
153.75	2														2
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	STATURE	174.07	6.82	.10*X	+	149.111	5.61	.569
X-	WEIGHT	156.02	24.22	2.02*Y	+	-195.013	19.91	

TABLE 2

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND CHEST CIRCUMFERENCE

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOT ALS
110.75										1	1	2			4
108.75								1			1	1			3
106.75								1	2	2		1		1	7
104.75								2	1	1	2				6
102.75							1	2	3	6		2			14
100.75							3	3	2	4	1				13
98.75						4	6	2	6						18
96.75						6	5	5	3	3					22
94.75				1	10	7	3	7		1					29
92.75				3	4	12	6								25
90.75				10	18	6	3	1	1						39
88.75			5	20	13	3									41
86.75		1	7	15	2	2									27
84.75		4	7	11	5	1									28
82.75	1	1	1	2											5
80.75	1	1	2												4
78.75	1	1													2
TOTALS	3	8	22	62	92	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	CHEST CIRCUMFERENCE	92.90	6.60	.24*X	+	55.459	3.07	.885
X-	WEIGHT	156.02	24.22	3.25*Y	+	-145.918	11.27	

TABLE 3

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND WAIST CIRCUMFERENCE/NATURAL

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOTALS
107.75														1	1
105.75												1			1
103.75											1	1			2
101.75										1					1
99.75										1		1			2
97.75								1							1
95.75							1		1	3					5
93.75								1	3	2	2	1			9
91.75								2	2	1	1	2			8
89.75							1	2	1	1	1				6
87.75								4	2						6
85.75						4	5	2	3	5					19
83.75				1		1	3	4	2	2					13
81.75					3	2	5	1		2					13
79.75				2	4	10	3	4	1						24
77.75				1	6	8	4	1	1						21
75.75			1	16	19	9	3	1	2						51
73.75			3	19	12	6	2	1							43
71.75		1	7	14	4	1									27
69.75		2	4	8	2										16
67.75	1	3	6	1	2										13
65.75	1	2	1												4
63.75	1														1
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

	MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-WAIST CIRCUMFERENCE/NATURAL	78.68	8.04	.29*X + 33.431	4.07	.863
X- WEIGHT	156.02	24.22	2.60*Y + -48.541	12.25	

TABLE 4

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND WAIST CIRCUMFERENCE/OMPHALION

WEIGHT

	106.75	116.75	126.75	136.75	146.75	156.75	166.75	176.75	186.75	196.75	206.75	216.75	226.75	236.75	TOTALS
107.75														1	1
105.75												2			2
103.75										1	1				2
101.75										1					1
99.75								1		2		1			4
97.75											1				1
95.75							1	1	3	1	2				8
93.75									1	1		1			3
91.75								3	2	2		2			9
89.75							1	1		1	1				4
87.75								4	3	2					9
85.75					1	3	6	2	2	3					17
83.75				1		2	3	4	2	2					14
81.75					1	3	5	1	1	2					13
79.75				2	6	8	5	3	2						26
77.75				3	5	9	1	1	2						21
75.75			1	15	20	10	4	2							52
73.75			4	19	9	5	1	1							39
71.75		1	6	13	8	1									29
69.75		2	5	8											15
67.75	1	3	5	1	2										12
65.75	1	1	1												3
63.75	1	1													2
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

	MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-WAIST CIRCUMFERENCE/OMPHALION	78.87	8.29	.29*X + 33.630	4.26	.858
X- WEIGHT	156.02	24.22	2.50*Y + -41.170	12.45	

TABLE 5

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND HIP CIRCUMFERENCE

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOT ALS
114.75														1	1
112.75											1	1			2
110.75										1		1			2
108.75									1	2	2	2			7
106.75									1	5		2			8
104.75							1		3	6	1				11
102.75						1		1	2	2	1				7
100.75						2	3	10	7	1					23
98.75					1	5	5	12	3	1					27
96.75				1	3	7	12	1	1						25
94.75				1	14	15	3								33
92.75			1	9	19	9	3								41
90.75			3	30	11	2									46
88.75		2	11	19	4										36
86.75	2	4	7	2											15
84.75	1	2													3
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	HIP CIRCUMFERENCE	95.14	6.04	.23*X + 59.259	2.14	.935
X-	WEIGHT	156.02	24.22	3.75*Y + -200.771	8.58	

TABLE 6

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND INTERSCYE BACK

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOT ALS
48.25												1			1
47.25							2	1	1	4					8
46.25							1	1		1	1				4
45.25						4	1	2	2	3	1				13
44.25				4	1	5	2	4	2	3		2		1	24
43.25			1	4	8	5	2	2	4	3		2			31
42.25		1		6	7	3	3	4	3	1					28
41.25			4	12	8	7	5	1		1	3	1			42
40.25			1	8	10	9	5	5	2	1					41
39.25		1	3	12	5	4	5	1	4	1					36
38.25	1	3	5	5	4	4		2							24
37.25			3	6	4		1	1							15
36.25	1	1	3	2	4										11
35.25	1	2		1	1										5
34.25			1	1											2
33.25			1	1											2
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	INTERSCYE BACK	41.02	2.81	.06*X + 31.657	2.35	.548
X-	WEIGHT	156.02	24.22	4.72*Y + -37.591	20.26	

TABLE 7

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND INTERSCYE FRONT

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOT ALS
41.50											1				1
41.00						1		1		2	1	2			7
40.50									1		1	2			4
40.00						1	1	1	2	1					6
39.50			1		1	1	2	2	1	1					9
39.00					2	2	1	1	2	2	1	1		1	13
38.50			1		1	4	3	3	5	2		1			20
38.00					6	8	1	4	2	3					24
37.50			1	1	5	9	5	4	2	1	1				29
37.00			1	7	3	2	3	1	1	1					19
36.50			2	10	8	3	4	1	2	3					33
36.00		1	2	9	4	6	2	1		1					26
35.50			3	6	10	4	1	5							29
35.00	1		4	8	5		1								19
34.50		3	4	5	2		2			1					17
34.00		1	1	6	5										13
33.50		1		1			1								3
33.00	1		2	7											10
32.50		1		2											3
32.00	1														1
31.50		1													1
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	INTERSCYE FRONT	36.67	1.96	.05*X + 28.866	1.47	.660
X-	WEIGHT	156.02	24.22	8.16*Y + -145.188	18.19	

TABLE 8

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND BACK ARC, CHEST

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOTALS
54.25								1		1		2			4
53.25											1	1			2
52.25							1			4	2				7
51.25						1		1	1	3	1	2		1	10
50.25							1	2	2	2					7
49.25						2	3	5	4	3	1	1			19
48.25					2	4	3	2	3	3					17
47.25				1	3	3	6	2	4						19
46.25				1	5	7	4	3	2	1					23
45.25				9	6	5	3	5	1	1					30
44.25			3	10	12	6	5	3							39
43.25		1	4	13	11	3									32
42.25			7	19	7	7	1		1						42
41.25	1	2	3	5	5	3									19
40.25	1	3	3	4	1										12
39.25		1	2												3
38.25	1	1													2
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	BACK ARC, CHEST	45.17	3.37	.11*X	+	28.011	1.95	.815
X-	WEIGHT	156.02	24.22	5.86*Y	+	-108.698	14.03	

TABLE 9

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND BACK ARC, WAIST

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	TOTALS
54.25												1	1
53.25											1		1
52.25													0
51.25													0
50.25													0
49.25							1			2		1	4
48.25								1	1	1			3
47.25							1		1	3		1	6
46.25								2	3	1			6
45.25								1	2	1	1	1	6
44.25						2	1	1	2	1	2	1	10
43.25						2	3	4	1	3			13
42.25				1		1		3	3	3			11
41.25					1	2	6	4	1	1	1		16
40.25				1	3	3	5	4	1	1			18
39.25				1	4	11	1	2	1				20
38.25				8	11	6	3		1	1			30
37.25		1	3	15	15	6	2	1					43
36.25			5	14	11	7	3	1	1				42
35.25		1	4	13	2		1						21
34.25		2	5	9	3	1							20
33.25	1		3		1								5
32.25	2	2	2		1								7
31.25		2											2
TOTALS	3	8	22	62	52	41	27	24	18	18	5	5	285

BACK ARC, WAIST

NUMBER EXCLUDED 2
TOTAL 287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	BACK ARC, WAIST	38.96	4.28	.15*X	+	15.559	2.40	.827
X-	WEIGHT	156.02	24.22	4.68*Y	+	-26.321	13.61	

TABLE 10

A BIVARIATE FREQUENCY TABLE FOR
WEIGHT AND BACK ARC, HIP

WEIGHT

	106 .75	116 .75	126 .75	136 .75	146 .75	156 .75	166 .75	176 .75	186 .75	196 .75	206 .75	216 .75	226 .75	236 .75	TOT ALS
58.75														1	1
57.75															0
56.75															0
55.75												1			1
54.75												2			2
53.75									2	3	2				7
52.75									1	1	1	1			4
51.75						1	1		1	6		1			10
50.75					1	1	1	4	1	4		1			13
49.75						3	3	4	4	3	2				19
48.75				1	1	6	4	7	5	1					25
47.75			1	1	4	4	5	2	3						20
46.75				3	7	9	6	7	1						33
45.75			1	10	8	8	3								30
44.75		1	3	19	21	4	4								52
43.75	2		6	19	6	5									38
42.75	1	3	5	8	4										21
41.75		3	6												9
40.75				1											1
39.75		1													1
TOTALS	3	8	22	62	52	41	27	24	18	18	5	6	0	1	287

BACK ARC, HIP

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	BACK ARC, HIP	46.57	3.13	.11*X + 29.403	1.61	.857
X-	WEIGHT	156.02	24.22	6.63*Y + -152.711	12.46	

TABLE 11

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND AXILLA HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
149.75																							1	1
147.75																								0
145.75																			1	1	1			3
143.75																		2	1					3
141.75															1	1	2	2	1					7
139.75														1	6	6	2	1						16
137.75													2	5	11	1	1							20
135.75												2	9	12	1									24
133.75											4	16	13	7	1									41
131.75										7	13	17	3											40
129.75								2	8	12	12	2	1											37
127.75							1	7	11	12	4													35
125.75						1	3	13	9															26
123.75					1		5	6																12
121.75			1	1	2	4	1	1																10
119.75				4	1	2																		7
117.75						1																		1
115.75	1	1		1																				3
113.75	1																							1
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	AXILLA HEIGHT	131.24	5.89	.84*X	-	14.978	1.48	.968
X-	STATURE	174.07	6.82	1.12*Y	+	27.080	1.71	

TABLE 12

A BIVARIATE FREQUENCY TABLE FOR STATURE AND SUPRASTERNALE HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
162.75																							1	1
160.75																								0
158.75																				1				1
156.75																		1	2		1			4
154.75																		4	1					5
152.75															2	2	3							7
150.75														1	5	6	1							13
148.75													2	10	12		1							25
146.75												3	11	12	1									27
144.75										1	3	19	12	2										37
142.75										9	18	13	3											43
140.75								2	5	15	12	2												36
138.75								9	15	6														30
136.75							5	13	8															26
134.75					2	1	3	4																10
132.75				1	2	6	2	1																12
130.75				2		1																		3
128.75			1	3																				4
126.75		1																						1
124.75	2																							2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	SUPRASTERNALE HEIGHT	142.70	6.09	.87*X	-	8.745	1.24	.979
X-	STATURE	174.07	6.82	1.10*Y	+	17.105	1.38	

TABLE 13

A BIVARIATE FREQUENCY TABLE FOR STATURE AND CHEST HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
146.75																							1	1
144.75																								0
142.75																					1			1
140.75																		1		1				2
138.75																		1	2					3
136.75															1	5	3	2	1					12
134.75													1	3	9	2	2	1						18
132.75												1	6	10	8	1								26
130.75											1	11	11	11	2									36
128.75								1		3	8	13	7	1										33
126.75								1	3	15	16	10	3											48
124.75							1	7	10	9	8	2												37
122.75							2	7	11	3														23
120.75					1	1	5	11	4	1														23
118.75				1	3	4	2	2																12
116.75			1	2		2																		5
114.75				3		1																		4
112.75	1																							1
110.75	1	1																						2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	r
Y-	CHEST HEIGHT	127.43	5.67	.80*X	-	11.833	1.65	.957
X-	STATURE	174.07	6.82	1.15*Y	+	27.534	1.98	

TABLE 14

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND SUBSTERNALE HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
140.75																							1	1
138.75																								0
136.75																		1						1
134.75																1				1				2
132.75															1	2	2	2	3		1			11
130.75														2	6	4	1	2						15
128.75													4	2	7		2							15
126.75											1	9	7	14	4	1								36
124.75										4	4	9	11	5										33
122.75									1	8	15	8	4	2	2									40
120.75							1	6	9	14	13	11	2											56
118.75					1		1	16	13	4														29
116.75						1	3	6	4	1														15
114.75				1	3	4	3	6	1															18
112.75				1		1	2	1																5
110.75			1	3		2																		6
108.75		1		1																				2
106.75	1																							1
104.75	1																							1
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	SUBSTERNALE HEIGHT	122.57	5.49	.76*X	-	9.729	1.90	.938
X-	STATURE	174.07	6.82	1.16*Y	+	31.895	2.36	

TABLE 15

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND WAIST HEIGHT/NATURAL

STATURE

WAIST HEIGHT/NATURAL	153.75	155.75	157.75	159.75	161.75	163.75	165.75	167.75	169.75	171.75	173.75	175.75	177.75	179.75	181.75	183.75	185.75	187.75	189.75	191.75	193.75	195.75	197.75	TOTALS
118.75																	1						1	2
116.75																		1		1	1			3
114.75														1	5	3		1	3					13
112.75											1		1	2	1	2								7
110.75											2	1	5	7	2	2	4							23
108.75									1	2		7	5	6	6	1		3						31
106.75								2	1	3	6	4	4	3	2									25
104.75								2	2	6	9	18	10	5	2									54
102.75							1	3	6	9	7	2	3		2									33
100.75							2	4	10	8	5	3		1										33
98.75				1		1	3	7	4	3	2	1												22
96.75			1			2		6	4			1												14
94.75				4	2	4	2	4			1													17
92.75				1	1	1	2	1																6
90.75	2	1			1																			4
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	WAIST HEIGHT/NATURAL	104.12	5.75	.71*X	-	19.474	3.08	.844
X-	STATURE	174.07	6.82	1.00*Y	+	69.956	3.66	

TABLE 16

A BIVARIATE FREQUENCY TABLE FOR STATURE AND WAIST HEIGHT/OMPHALION

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOT ALS
119.75																							1	1
117.75																		1	1	1				3
115.75																2	1	1	1		1			6
113.75														4	4	3	3	2	1					17
111.75												2	3	4	9	1								19
109.75											1	4	8	6	4	2	1							26
107.75										4	6	13	11	6	2			1						43
105.75								1	1	7	10	13	3	5										40
103.75							1	5	10	15	14	4	3		1									53
101.75						1	2	9	11	4	2	1												30
99.75							3	10	6	1														20
97.75				1	2	2	4	3																12
95.75			1	2	1	4																		8
93.75				3	1	1		1																6
91.75		1																						1
89.75	2																							2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	WAIST HEIGHT/OMPHALION	105.47	5.27	.71*X	-	18.122	2.00	.925
X-	STATURE	174.07	6.82	1.20*Y	+	47.509	2.59	

TABLE 17

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND ELBOW HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOT ALS
126.75																							1	1
124.75																								0
122.75																				1				1
120.75															1			1	1		1			4
118.75														1	1	1	2	2	1					8
116.75													1	1	4	5	3		1					15
114.75												2	4	5	12	1		1						25
112.75											2	9	9	12	2	1		1						36
110.75									1	6	13	14	11	5										50
108.75							1	2	5	10	8	11	2	1										40
106.75						1		8	8	11	10	1	1											40
104.75					1		4	13	13	4														35
102.75						2	4	4	1															11
100.75			1	3	3	4	1	2																14
98.75				2		1																		3
96.75	1			1																				2
94.75	1	1																						2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	ELBOW HEIGHT	109.40	5.05	.69*X	-	10.709	1.87	.929
X-	STATURE	174.07	6.82	1.25*Y	+	37.321	2.52	

TABLE 18

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND BUTTOCK HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
105.75																							1	1
103.75																			1					1
101.75																				1	1			2
99.75													2		2				1					5
97.75													2	1	2	2	1	3						11
95.75										1	1	1	1	5	5	3	4		1					22
93.75								1		2	1	6	4	5	5	1		2						27
91.75									2	6	6	9	9	7	5	2								46
89.75								4	7	7	8	12	5	4	1									48
87.75							3	6	6	5	12	6	5	2										45
85.75						1	1	3	7	8	3	3		1										27
83.75				1		1	4	9	6	1	2													24
81.75				1	1	3	2	4		1														12
79.75			1	3	3	2		1																10
77.75	1	1		1		1		1																5
75.75	1																							1
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	BUTTOCK HEIGHT	89.41	5.07	.63*X	-	20.258	2.65	.852
X-	STATURE	174.07	6.82	1.19*Y	+	71.254	3.56	

TABLE 19

A BIVARIATE FREQUENCY TABLE FOR STATURE AND KNUCKLE HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOT ALS
88.75																							1	1
86.75																			1					1
84.75														1	1			2						4
82.75													1	2		2	2	2	1	1	1			12
80.75										1	2	3	2	4	8	2	1							23
78.75									1	3	6	9	8	5	7	2		1	1					43
76.75							2	2	1	4	9	9	7	9	4	2	2							51
74.75					1	2		5	10	9	8	11	6	1										53
72.75				2		1	1	11	9	10	6	5	3	1										49
70.75					2	1	4	7	6	4	2		1	2										29
68.75			1	2	1	1	2	4	1															12
66.75	1	1		1		2	1																	6
64.75				1		1																		2
62.75	1																							1
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	KNUCKLE HEIGHT	75.51	4.11	.48*X	-	8.048	2.52	.791
X-	STATURE	174.07	6.82	1.31*Y	+	75.160	4.17	

TABLE 20

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND GLUTEAL FURROW HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
94.75																							1	1
92.75																								0
90.75														1	1					1				3
88.75													3	1	4	3		2	1		1			15
86.75											1		2	1	2	1	2	3	1					13
84.75										1	2	4	4	5	4	3	1		1					25
82.75								1	2	5	2	10	7	10	4	1	2							44
80.75							1	3	4	9	12	12	8	5	4									58
78.75							1	9	11	7	9	7	3	1	1									49
76.75				1	1	1	5	5	8	6	7	4		1										39
74.75			1	1	2	1	2	8	3	2			1											21
72.75	1			2	1	4	1	3		1														13
70.75				2		2																		4
68.75		1																						1
66.75	1																							1
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	GLUTEAL FURROW HEIGHT	80.37	4.42	.54*X	-	13.628	2.47	.828
X-	STATURE	174.07	6.82	1.28*Y	+	71.198	3.82	

TABLE 21

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND TIBIALE HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
55.75																				1			1	2
54.75																		1	1		1			3
53.75																	2							2
52.75													2	1	4	2	2	4	1					16
51.75												1	4	4	7	3	1		1					21
50.75										3	2	7	3	7	3	3								28
49.75									1	4	6	4	6	6	4									31
48.75								5	4	4	6	8	7	4	1									39
47.75							1	3	8	8	7	8	4	2										41
46.75							3	7	11	7	8	6	2											44
45.75				2	1	1	4	5	3	3	3	3												25
44.75			1		1		2	4	1	1	1													11
43.75				1	1	1		3																6
42.75				2	1	3		1																7
41.75	1					2		1																4
40.75	1	1		1																				3
TOTALS	2	1	1	6	4	7	10	29	28	30	33	37	28	24	19	8	5	5	3	1	1	0	1	283

NUMBER EXCLUDED 4
TOTAL 287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	TIBIALE HEIGHT	47.64	6.30	.34*X	-	11.544	5.85	.369
X-	STATURE	174.07	6.82	.40*Y	+	155.017	6.34	

TABLE 22

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND SITTING HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
100.25															1						1			2
99.25																								0
98.25															1								1	2
97.25																		1	2					3
96.25												1		2			2	2						7
95.25													1	2	1	1			1	1				7
94.25										1	3		1	2	1	2								10
93.25								1			1	3	4		2	1	1	1						14
92.25									1	2	4	4	4	3	5	4	1							28
91.25								1	1	1	3	4	3	4	2			1						20
90.25						2	1		2	2	4	9	4	6	1		1							32
89.25						1	1	2	3	7	7	3	4	3	4									35
88.25				1		1	1	6	8	4	5	6	2	1	1									36
87.25		1				1	1	4	4	4	4	5	3	1	1									29
86.25				1	1	3	1	6	2	5	1	1	1											22
85.25								2	4	4	1													11
84.25				1	1		1	3	1	1		1	1	1										11
83.25				2	2		1	3																8
82.25							1	1	2															4
81.25	1		1				1																	3
80.25							1																	1
79.25	1																							1
78.25				1																				1
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS		SE-EST	R
Y-	SITTING HEIGHT	89.34	3.63	.38*X	+ 23.195	2.53	.717
X-	STATURE	174.07	6.82	1.35*Y	+ 53.461	4.76	

TABLE 23

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND EYE HEIGHT, SITTING

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
86.25															1				1		1			3
85.25																		2						2
84.25										1			1	1	1			1					1	6
83.25												1	1	2	2	1	1			1				9
82.25								1				2	2		1	1		1	2					10
81.25									1		3	1	2	4	2	2	2							17
80.25								1		2	4	5		3	1	2		1						19
79.25									2	2	6	3	8	4	3		1							29
78.25						2	1	2	3	2	3	6	6	4	2	2								33
77.25				1		1	1	1	4	7	7	5	2	2	2									33
76.25							1	5	3	6	6	7	2	4	3		1							38
75.25		1			1	5	1	7	7	3	2	3	2		1									33
74.25				1			1	5	2	3	2	3	1		1									19
73.25				1	1			4	3	5		1		1										16
72.25				1	1		2	1	2															7
71.25				1	1		1	1					1											5
70.25	1						2	1	1															5
69.25																								0
68.25			1																					1
67.25	1			1																				2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	EYE HEIGHT, SITTING	77.42	3.39	.34*X	+	18.232	2.50	.676
X-	STATURE	174.07	6.82	1.36*Y	+	68.787	5.03	

TABLE 24

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND MIDSHOULDER HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
69.25																					1		1	2
68.25													1		3			2						6
67.25												1	1				1		1					4
66.25												2	1	1	2		1	1	1	1				10
65.25									1	1	2	1	3	2	2	2	1		1					16
64.25									1	1	2	2	5	5	2	4								22
63.25									1	4	4	4	5	2	1	1	1	2						25
62.25						1	2	3	2	3	9	8		10	6	1								45
61.25						1	1	2	6	7	7	6	5	4	3		1							43
60.25				2			2	1	4	5	5	5	2		1									27
59.25					2	4		13	1	4	2	2	2											30
58.25							1	5	7	5	2	4	2											26
57.25		1		1		2		4	4	1		2	1											16
56.25	1			1	1		3	1						1										8
55.25				1	1				1															3
54.25	1						1																	2
53.25			1	1																				2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

	MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y- MIDSHOULDER HEIGHT	61.39	3.03	.31*X + 7.426	2.18	.693
X- STATURE	174.07	6.82	1.56*Y + 78.307	4.92	

TABLE 25

A BIVARIATE FREQUENCY TABLE FOR STATURE AND KNEE HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
62.75																		1		1			1	3
61.75															1		1	1	1					4
60.75														1	1	1		1	1					5
59.75													2	3	3	2	2	1	1		1			15
58.75													4	3	8	2	2							19
57.75												6	4	2	4	1		1						18
56.75									1	3	5	9	5	9	2	2								36
55.75							1	1	3	9	6	8	7	4										39
54.75								8	2	7	5	8	3	2	1									36
53.75					1			6	10	6	7	3	3	1										37
52.75				1			3	5	7	4	8	3												31
51.75				1	2	2	3	3	4	1	2													18
50.75			1			2	3	4	1	1														12
49.75				1	1	2		1																5
48.75				1		2		1																4
47.75				2																				2
46.75	2	1																						3
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	KNEE HEIGHT	55.10	3.02	.38*X	-	11.052	1.51	.866
X-	STATURE	174.07	6.82	1.95*Y	+	66.636	3.41	

TABLE 26

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND POPLITEAL HEIGHT

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
52.25																				1				1
51.25																		1					1	2
50.25															1				1					2
49.25													2		2	1	2	1	1		1			10
48.25												1	1	5	3	3	1							14
47.25													5	5	7	2	2	2	1					24
46.25										2	2	9	7	6	4	1		1						32
45.25									1	6	6	9	5	6	2	1								36
44.25							1	7	3	5	10	9	5	1										41
43.25								7	14	11	5	5	3	1										46
42.25				1			5	5	7	4	7	3		1	1									34
41.25			1	1	2		2	4	2	1	3	1												17
40.25				1	1	4	1	5	1	2														15
39.25				1	1	1	1	1																5
38.25	1					2																		3
37.25	1	1		2		1																		5
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	POPLITEAL HEIGHT	44.27	2.72	.34*X	-	14.912	1.44	.847
X-	STATURE	174.07	6.82	2.13*Y	+	79.772	3.62	

TABLE 27

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND SHOULDER-ELBOW LENGTH

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
42.00																					1			1
41.50																			1					1
41.00																		1						1
40.50																			1				1	2
40.00												1	1				1			1				4
39.50													1	3	1	3	2							10
39.00												1	2	1	6	1								11
38.50												1	2	2	1		1	1	1					9
38.00									2	2	2	5	4	5	5	1		2						28
37.50										3	2	4	3	1	4	2	1	1						21
37.00									1	5	4	6	6	4										26
36.50									4	1	8	7	4	6	2	1								33
36.00						1	1	2	3	5	6	4	1	2										25
35.50							2	6	4	6	7	4	1	1										31
35.00					1		1	9	6	6	3	4	1											31
34.50					1		3	5	6	2	1				1									19
34.00			1	1		1	1	4	2	1			1											12
33.50				2	1	2	2	2					1											10
33.00	1			1		1																		3
32.50				1	1	2																		4
32.00						1																		1
31.50	1			1																				2
31.00		1						1																2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	SHOULDER-ELBOW LENGTH	36.32	1.85	.22*X	-	1.980	1.07	.817
X-	STATURE	174.07	6.82	3.00*Y	+	65.126	3.93	

TABLE 28

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND ELBOW-FINGERTIP LENGTH

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
54.25																1			1					2
53.25												1	1	1	1			1						5
52.25													1	4	1	1			1	1	1		1	11
51.25									1		1		4	1	4		3							14
50.25										1	2	4	2	4	4	3	2	4						26
49.25								2		6	2	9	9	5	3	1								37
48.25								5	3	8	7	9	1	4	6	2			1					46
47.25							1	6	8	7	10	8	6	4										50
46.25						2	6	3	8	6	6	3	3	1	1									39
45.25				1	3	1	2	4	7	3	4	2	1	1										29
44.25				1		4	1	5	1			1												13
43.25			1	4	1			3			1													10
42.25	1					1																		2
41.25								1																1
40.25	1	1																						2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	ELBOW-FINGERTIP LENGTH	47.77	2.47	.27*X	+	.771	1.62	.754
X-	STATURE	174.07	6.82	2.08*Y	+	74.709	4.48	

TABLE 29

A BIVARIATE FREQUENCY TABLE FOR
STATURE AND BUTTOCK-KNEE LENGTH

STATURE

	153 .75	155 .75	157 .75	159 .75	161 .75	163 .75	165 .75	167 .75	169 .75	171 .75	173 .75	175 .75	177 .75	179 .75	181 .75	183 .75	185 .75	187 .75	189 .75	191 .75	193 .75	195 .75	197 .75	TOTALS
70.75																							1	1
69.75																	1							1
68.75																								0
67.75																1			1					2
66.75												2	1					1		1	1			6
65.75														3	5			4	2					14
64.75														5	5	1	1							12
63.75								1		2	1	3	5	2	6	1	2							23
62.75										3	3	6	8	7	3	5								35
61.75									5	3	8	7	5	4			1							33
60.75							2	4	3	5	4	9	4	2	1									34
59.75							1	3	4	10	8	5	2	2										35
58.75					1	1		5	5	5	7	2	2											28
57.75				1	2	1	2	9	7	2	1	1	1											27
56.75				1		3	3	4	2	1	1	2												17
55.75				2	1	2	2	1	2															10
54.75								1																1
53.75	1		1	2		1		1																6
52.75	1	1																						2
TOTALS	2	1	1	6	4	8	10	29	28	31	33	37	28	25	20	8	5	5	3	1	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	BUTTOCK-KNEE LENGTH	60.78	3.07	.37*X	-	3.626	1.72	.828
X-	STATURE	174.07	6.82	1.84*Y	+	62.237	3.83	

TABLE 30

A BIVARIATE FREQUENCY TABLE FOR
CHEST HEIGHT AND CHEST CIRCUMFERENCE

CHEST HEIGHT

	110 .75	112 .75	114 .75	116 .75	118 .75	120 .75	122 .75	124 .75	126 .75	128 .75	130 .75	132 .75	134 .75	136 .75	138 .75	140 .75	142 .75	144 .75	146 .75	TOTALS
110.75						1			1	1	1									4
108.75							1		1				1							3
106.75						1		1	1	1	1	1	1							7
104.75					1	1	2						1	1						6
102.75						1		1	2	2	2	2	1	1	1				1	14
100.75					1				2	2	4	2		2						13
98.75							1	2	5	1	4	1	2	1			1			18
96.75					1	2		4	3		5	3	2		1	1				22
94.75					2	2	1	6	5	4	3	2	2	1	1					29
92.75					2		3	3	6	5	1	3		2						25
90.75			2		2	4	3	4	4	5	5	4	3	2		1				39
88.75			1	3	1	4	7	8	4	2	6	4	1							41
86.75			1	1	1	2	2	5	4	6	2	1	1	1						27
84.75	1				1	4	2	2	6	4	2	2	3	1						28
82.75		1					1		2			1								5
80.75	1					1		1	1											4
78.75				1					1											2
TOTALS	2	1	4	5	12	23	23	37	48	33	36	26	18	12	3	2	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	CHEST CIRCUMFERENCE	92.90	6.60	.28*X + 57.223	6.41	.238
X-	CHEST HEIGHT	127.43	5.67	.20*Y + 108.846	5.51	

TABLE 31

A BIVARIATE FREQUENCY TABLE FOR
WAIST HEIGHT/NATURAL AND WAIST HEIGHT/OMPHALION

WAIST HEIGHT/NATURAL

	90 .75	92 .75	94 .75	96 .75	98 .75	100 .75	102 .75	104 .75	106 .75	108 .75	110 .75	112 .75	114 .75	116 .75	118 .75	TOTALS
119.75															1	1
117.75													1	2		3
115.75													4	1	1	6
113.75										4	7	2	4			17
111.75							2	2		4	6	2	3			19
109.75								3	6	9	6	2				26
107.75							3	16	10	11	2		1			43
105.75					3	6	6	17	3	2	2	1				40
103.75			1		4	14	15	13	5	1						53
101.75		1	2	5	5	9	6	2								30
99.75			3	6	5	3	1	1	1							20
97.75		3	3	2	3	1										12
95.75		1	5	1	1											8
93.75	1	1	3		1											6
91.75	1															1
89.75	2															2
TOTALS	4	6	17	14	22	33	33	54	25	31	23	7	13	3	2	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	WAIST HEIGHT/OMPHALION	105.47	5.27	.81*X	+	21.135	2.51	.879
X-	WAIST HEIGHT/NATURAL	104.12	5.75	.96*Y	+	2.867	2.74	

TABLE 32

A BIVARIATE FREQUENCY TABLE FOR
WAIST HEIGHT/NATURAL AND WAIST CIRCUMFERENCE/NATURAL

WAIST HEIGHT/NATURAL

	90 .75	92 .75	94 .75	96 .75	98 .75	100 .75	102 .75	104 .75	106 .75	108 .75	110 .75	112 .75	114 .75	116 .75	118 .75	TOTALS
107.75										1						1
105.75				1												1
103.75							1				1					2
101.75							1									1
99.75								1	1							2
97.75				1												1
95.75	1	1				1				1		1				5
93.75			1	1	1	1	1	2		1					1	9
91.75				1	1	2		1			1		1		1	8
89.75				1			2		1				2			6
87.75						1		2	1	2						6
85.75				1		2	3	4	2	3	4					19
83.75			1				3	3		4			1	1		13
81.75		1			1	1	4	1	1	1	1		1	1		13
79.75		2	2	1	3	2		7		2	3		1	1		24
77.75		1	2		1	3	3	1	2	3	1	1	3			21
75.75			3	2	6	6	4	13	10	2	2	1	2			51
73.75		1	2	3	4	6	4	8	1	4	6	2	2			43
71.75			2		2	6	5	5		4	2	1				27
69.75	1		3	1	1	1	1	3	3	2						16
67.75	1		1		2	1	1	3	1		2	1				13
65.75	1								2	1						4
63.75				1												1
TOTALS	4	6	17	14	22	33	33	54	25	31	23	7	13	3	2	287

SUMMARY STATISTICS

	MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-WAIST CIRCUMFERENCE/NATURAL	78.68	8.04	.11*X + 67.223	8.01	.080
X- WAIST HEIGHT/NATURAL	104.12	5.75	.06*Y + 99.398	5.73	

TABLE 33

A BIVARIATE FREQUENCY TABLE FOR
WAIST HEIGHT/NATURAL AND GLUTEAL FURROW HEIGHT

WAIST HEIGHT/NATURAL

	90 .75	92 .75	94 .75	96 .75	98 .75	100 .75	102 .75	104 .75	106 .75	108 .75	110 .75	112 .75	114 .75	116 .75	118 .75	TOT ALS
94.75															1	1
92.75																0
90.75											1		1	1		3
88.75							1			2	2	1	7	2		15
86.75							1		2	4	2	1	2		1	13
84.75								5	1	5	9	2	3			25
82.75						2	4	10	5	14	7	2				44
80.75				1	3	6	6	23	10	6	2	1				58
78.75			1	3	3	11	13	13	5							49
76.75	1	2	2	2	10	13	5	2	2							39
74.75		1	7	6	2	1	3	1								21
72.75	1	2	5	2	3											13
70.75		1	2		1											4
68.75	1															1
66.75	1															1
TOTALS	4	6	17	14	22	33	33	54	25	31	23	7	13	3	2	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS		SE-EST	R
Y-	GLUTEAL FURROW HEIGHT	80.37	4.42	.65*X	+ 12.695	2.35	.846
X-	WAIST HEIGHT/NATURAL	104.12	5.75	1.10*Y	+ 15.710	3.06	

TABLE 34

A BIVARIATE FREQUENCY TABLE FOR
WAIST HEIGHT/OMPHALION AND WAIST CIRCUMFERENCE/OMPHALION

WAIST HEIGHT/OMPHALION

	89 .75	91 .75	93 .75	95 .75	97 .75	99 .75	101 .75	103 .75	105 .75	107 .75	109 .75	111 .75	113 .75	115 .75	117 .75	119 .75	TOTALS
107.75										1							1
105.75							1		1								2
103.75							1		1								2
101.75							1										1
99.75						1		1		1	1						4
97.75													1				1
95.75			1		1	1		2	2					1			8
93.75									1	1						1	3
91.75							2	3		1	1	1		1			9
89.75					1			1		1			1				4
87.75								1	3	1	1		2		1		9
85.75				1			2	1	1	6	2	1	3				17
83.75						1		1	2	3	2	2	1	1	1		14
81.75							3	3	1	1		2	2	1			13
79.75			1		3		2	4	6	3		4	1	1	1		26
77.75				1	2		3	3	3	2	6			1			21
75.75				1	1	7	1	11	10	11	6	1	3				52
73.75			1	2	2	5	4	7	5	4	3	4	2				39
71.75			2	1	1	1	4	10	2	4	2	1	1				29
69.75		1			1	3	4	3	1	1		1					15
67.75	1		1	1		1	2	1	1	1	1	2					12
65.75	1									1	1						3
63.75				1				1									2
TOTALS	2	1	6	8	12	20	30	53	48	43	26	19	17	6	3	1	287

SUMMARY STATISTICS

	MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-WAIST CIRCUMFERENCE/OMPHALION	78.87	8.29	.29*X	+	48.288	8.15	.185
X- WAIST HEIGHT/OMPHALION	105.47	5.27	.12*Y	+	96.005	5.18	

TABLE 35

A BIVARIATE FREQUENCY TABLE FOR
ELBOW HEIGHT AND KNUCKLE HEIGHT

ELBOW HEIGHT

	94 .75	96 .75	98 .75	100 .75	102 .75	104 .75	106 .75	108 .75	110 .75	112 .75	114 .75	116 .75	118 .75	120 .75	122 .75	124 .75	126 .75	TOTALS
88.75																	1	1
86.75														1				1
84.75													2	2				4
82.75										2	1	2	5	1	1			12
80.75							1		3	5	8	5	1					23
78.75							2	2	14	9	11	5						43
76.75						3	2	10	17	11	5	3						51
74.75				1	1	6	13	16	11	5								53
72.75				2	2	12	15	11	4	3								49
70.75				5	5	10	6	1	1	1								29
68.75		1		4	2	4	1											12
66.75	1	1	1	2	1													6
64.75			2															2
62.75	1																	1
TOTALS	2	2	3	14	11	35	40	40	50	36	25	15	8	4	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	KNUCKLE HEIGHT	75.51	4.11	.70*X	-	1.074	2.11	.859
X-	ELBOW HEIGHT	109.40	5.05	1.05*Y	+	30.120	2.59	

TABLE 36

A BIVARIATE FREQUENCY TABLE FOR
BUTTOCK HEIGHT AND HIP CIRCUMFERENCE

BUTTOCK HEIGHT

	75 .75	77 .75	79 .75	81 .75	83 .75	85 .75	87 .75	89 .75	91 .75	93 .75	95 .75	97 .75	99 .75	101 .75	103 .75	105 .75	TOTALS
114.75										1							1
112.75								1			1						2
110.75							1			1							2
108.75						3	2	1								1	7
106.75			1			1	1		4				1				8
104.75					1		1	1	2	1	2	2	1				11
102.75				1	1			1	1	1	2						7
100.75			1	1	1	1	3	3	3	3	5	1			1		23
98.75					1	1	1	5	9	3	2	3		2			27
96.75			2	2	1	1	2	5	4	5	1	1	1				25
94.75				1	4	3	5	5	6	5	2	1	1				33
92.75				2	5	2	11	8	5	3	4	1					41
90.75		1	3	3	5	7	6	10	8	2		1					46
88.75		3	2	2	3	4	8	5	3	2	2	1	1				36
86.75	1	1			2	4	4	2	1								15
84.75			1					1			1						3
TOTALS	1	5	10	12	24	27	45	48	46	27	22	11	5	2	1	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	HIP CIRCUMFERENCE	95.14	6.04	.37*X + 62.062	5.75	.310
X-	BUTTOCK HEIGHT	89.41	5.07	.26*Y + 64.671	4.82	

TABLE 37

A BIVARIATE FREQUENCY TABLE FOR
BUTTOCK HEIGHT AND GLUTEAL FURROW HEIGHT

BUTTOCK HEIGHT

	75 .75	77 .75	79 .75	81 .75	83 .75	85 .75	87 .75	89 .75	91 .75	93 .75	95 .75	97 .75	99 .75	101 .75	103 .75	105 .75	TOT ALS
94.75																1	1
92.75																	0
90.75										1	1			1			3
88.75									1	2	1	6	3	1	1		15
86.75										4	5	2	2				13
84.75						1			5	8	8	3					25
82.75							3	12	17	7	5						44
80.75					2	2	12	20	10	4	2						58
78.75					3	11	17	11	6	1							49
76.75			1	2	10	10	11	4	1								39
74.75			4	4	8	2	2	1									21
72.75		3	3	5	1	1											13
70.75		1	2	1													4
68.75		1															1
66.75	1																1
TOTALS	1	5	10	12	24	27	45	48	46	27	22	11	5	2	1	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	Sc-EST	R
Y-	GLUTEAL FURROW HEIGHT	80.37	4.42	.78*X + 10.633	1.93	.899
X-	BUTTOCK HEIGHT	89.41	5.07	1.03*Y + 6.026	2.22	

TABLE 38

A BIVARIATE FREQUENCY TABLE FOR
ACROMION-RADIALE AND RADIALE-STYLION

ACROMION-RADIALE

	28.0	28.50	29.0	29.50	30.0	30.50	31.0	31.50	32.0	32.50	33.0	33.50	34.0	34.50	35.0	35.50	36.0	36.50	37.0	37.50	38.0	38.50	39.0	39.50	TOTALS
31.50													1												1
31.00																									0
30.50																		1	3		1				5
30.00													1		1	1	1		1					1	6
29.50																	1	2	1	1		1			6
29.00											1	2	2		2		1	3	1						12
28.50										1		1	3	3	3	5	4			1	1				22
28.00									1		4		4	3	5	3	2	3	2						27
27.50						1		1	1	2	3	3	3	3	7	8	2	2							36
27.00							2	1		4	3	6	2	2	2	4									26
26.50								1	4	3	5	4	7	4	3	1	1								33
26.00							1	1	6	12	5	6	5	8		1	1	1							47
25.50				1	1		1	2	4	8	6	1	2	3											29
25.00						1		5	2	2	1	1	1												13
24.50					1		2	1	3	3		1													11
24.00				1	1	1	1			2															6
23.50					1	2				1															4
23.00			1																						1
22.50																									0
22.00	1																								1
21.50			1																						1
TOTALS	1	0	2	2	4	5	7	12	21	38	28	25	31	26	23	23	13	12	8	2	2	1	0	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	RADIALE-STYLION	26.84	1.57	.63*X + 5.584	1.08	.7
X-	ACROMION-RADIALE	33.74	1.82	.84*Y + 11.195	1.25	

TABLE 39

A BIVARIATE FREQUENCY TABLE FOR
SITTING HEIGHT AND EYE HEIGHT, SITTING

SITTING HEIGHT

	78 .25	79 .25	80 .25	81 .25	82 .25	83 .25	84 .25	85 .25	86 .25	87 .25	88 .25	89 .25	90 .25	91 .25	92 .25	93 .25	94 .25	95 .25	96 .25	97 .25	98 .25	99 .25	100 .25	TOTALS
86.25																				1			2	3
85.25																			1	1				2
84.25																	1	1	2		2			6
83.25															1	1	2	3	2					9
82.25																5	1	2	1	1				10
81.25												1		1	6	4	3	1	1					17
80.25												1	3	4	7	1	3							19
79.25												3	3	9	12	2								29
78.25										1	3	9	12	5	2	1								33
77.25										4	12	10	6	1										33
76.25								1	2	8	11	8	8											38
75.25								3	11	8	8	3												33
74.25							2	1	7	8	1													19
73.25					1	3	4	5	2		1													16
72.25					2	3	1	1																7
71.25						2	3																	5
70.25			1	2	1		1																	5
69.25																								0
68.25				1																				1
67.25	1	1																						2
TOTALS	1	1	1	3	4	8	11	11	22	29	36	35	32	20	28	14	10	7	7	3	2	0	2	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	EYE HEIGHT, SITTING	77.42	3.39	.88*X	-	1.285	1.14	.941
X-	SITTING HEIGHT	89.34	3.63	1.01*Y	+	11.152	1.22	

TABLE 40

A BIVARIATE FREQUENCY TABLE FOR
FOOT LENGTH AND FOOT BREADTH

FOOT LENGTH

	22 .50	23 .0	23 .50	24 .0	24 .50	25 .0	25 .50	26 .0	26 .50	27 .0	27 .50	28 .0	28 .50	29 .0	29 .50	TOTALS
11.55													1			1
11.35														1		1
11.15														2		2
10.95										2	2	1	1	2	3	11
10.75							1			3	2	2	3	3	1	15
10.55							1	5	2	3	3	3	3	3		23
10.35						2	6	1	1	4	4	1	2	2	3	26
10.15					1	1	2	4	3	8	4	5	1	2		31
9.95			1	1		1	3	6	10	2	8	6	2	1		41
9.75			1		2	3	2	8	4	13	5	5	2			45
9.55				3	1	5	5	8	8	3	2	4				39
9.35				1	2	4	3	5	3	1	2	2				23
9.15			1	1	1	1	1	4		2	1					12
8.95			1					2	1	1	1	1				7
8.75						1				2			1			4
8.55									2							2
8.35	1															1
8.15					1		1									2
TOTALS	1	0	4	6	8	18	25	43	34	44	34	30	16	16	7	286

NUMBER EXCLUDED 1
TOTAL 287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	FOOT BREADTH	9.88	.81	.30*X + 1.883	.52	.769
X-	FOOT LENGTH	26.66	2.06	1.96*Y + 7.295	1.32	

TABLE 41

A BIVARIATE FREQUENCY TABLE FOR
FOOT LENGTH AND FOOT CIRCUMFERENCE

FOOT LENGTH

	22 .50	23 . 0	23 .50	24 . 0	24 .50	25 . 0	25 .50	26 . 0	26 .50	27 . 0	27 .50	28 . 0	28 .50	29 . 0	29 .50	TOTALS
28.50														2		2
28.00														3	1	4
27.50									1	2	3		3	1	1	11
27.00							1		1		4	2	2	4	2	16
26.50							1	6	1	4		3	3	4	3	25
26.00							1	2	4	8	9	6	4	2		36
25.50							4	4	5	3	4	4	1			25
25.00					1	3	3	6	7	13	5	6	2			46
24.50			2	1	1	8	7	12	7	7	4	6				55
24.00				3	4	2	6	5	3	2	5	1				31
23.50			1	1		4	1	5	2	3		2				19
23.00				1	1	1		2	1	1			1			8
22.50			1					1	1	1						4
22.00					1				1							2
21.50	1						1									2
TOTALS	1	0	4	6	8	18	25	43	34	44	34	30	16	16	7	286

NUMBER EXCLUDED 1
TOTAL 287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	r
Y-	FOOT CIRCUMFERENCE	25.15	1.29	.23*X	+	19.022	1.19	.359
X-	FOOT LENGTH	26.66	2.06	.59*Y	+	11.823	1.92	

TABLE 42

A BIVARIATE FREQUENCY TABLE FOR
INTERSCYE FRONT AND INTERSCYE BACK

INTERSCYE FRONT

	31 .50	32 . 0	32 .50	33 . 0	33 .50	34 . 0	34 .50	35 . 0	35 .50	36 . 0	36 .50	37 . 0	37 .50	38 . 0	38 .50	39 . 0	39 .50	40 . 0	40 .50	41 . 0	41 .50	TOTALS
48.25																			1			1
47.25							1		1		2	1		2	1							8
46.25														1			2			1		4
45.25							1		2	1	1		2	1	3	2						13
44.25							1	1	1	1		1	5		3	3	1	2		3		24
43.25							2		5	1	4	2	5	5	1		1	2	1	2		31
42.25			1	3		1	1		2	4	3	3	2	1	1	2		2	1	1		28
41.25			1	1	1	2	4	3	4	4	3	4	8	1	3		1		1		1	42
40.25				1		3		3	6	4	4	5		7	3	4	1					41
39.25				1	1	2	2	3	3	3	7	1	2	4	3	1	3					36
38.25	1			3	1	1	2	3	3	3	2	1	1	2	1							24
37.25				1		2	1	4	2	1	1	1	2									15
36.25		1	1				2	1		2	2		1			1						11
35.25						1		1		1	2											5
34.25						1									1							2
33.25										1			1									2
TOTALS	1	1	3	10	3	13	17	19	29	26	33	19	29	24	20	13	9	6	4	7	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	INTERSCYE BACK	41.02	2.81	.51*X + 22.318	2.62	.357
X-	INTERSCYE FRONT	36.67	1.96	.25*Y + 26.413	1.83	

TABLE 43

A BIVARIATE FREQUENCY TABLE FOR
WAIST FRONT AND WAIST BACK

WAIST FRONT

	32 .75	33 .75	34 .75	35 .75	36 .75	37 .75	38 .75	39 .75	40 .75	41 .75	42 .75	43 .75	44 .75	45 .75	46 .75	47 .75	48 .75	TOT ALS
52.75															1	1		2
51.75									1			1		1	1	2		6
50.75										1		3	3	1	1			9
49.75									1		2	2		4			1	10
48.75								1		1	4	3	3	1		1		14
47.75			1				3	2	3	7	5	3		2	2			28
46.75				1		1	1	2	6	2	3	6	1	3	2			28
45.75				1			5	5	6	8	5		3					33
44.75						2	3	9	5	6	2	2	3	1	1			34
43.75					2	2	7	4	10	1	3	2	1		1			33
42.75					4	5	4	5	8	7	1					1		35
41.75			4		1	1	4	3		1	1							15
40.75				3	1	2	4	1	2	1		1						15
39.75			1			4	3	1	2		1	1						13
38.75	1		1	1	1	1		1		1								7
37.75	1		2	1		1												5
TOTALS	2	0	9	7	9	19	34	34	44	36	27	24	14	13	9	5	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	WAIST BACK	44.90	3.20	.68*X + 16.989	2.45	.645
X-	WAIST FRONT	41.05	3.03	.61*Y + 13.657	2.32	

TABLE 44

A BIVARIATE FREQUENCY TABLE FOR
GLUTEAL FURROW HEIGHT AND TIBIALE HEIGHT

GLUTEAL FURROW HEIGHT

	66 .75	68 .75	70 .75	72 .75	74 .75	76 .75	78 .75	80 .75	82 .75	84 .75	86 .75	88 .75	90 .75	92 .75	94 .75	TOT ALS
55.75													1		1	2
54.75												3				3
53.75										1	1					2
52.75									1	2	7	4	2			16
51.75							1		7	5	2	6				21
50.75								6	10	8	2	2				28
49.75							3	14	8	5	1					31
48.75						4	8	14	10	3						39
47.75					3	8	12	14	3	1						41
46.75				1	4	14	15	8	2							44
45.75				2	6	7	8	1	1							25
44.75				1	5	3	1	1								11
43.75				4	1	1										6
42.75			3	1	1	2										7
41.75	1			3												4
40.75		1	1	1												3
TOTALS	1	1	4	13	20	39	48	58	42	25	13	15	3	0	1	283

NUMBER EXCLUDED 4
TOTAL 287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	TIBIALE HEIGHT	47.64	6.30	.56*X	+	2.633	5.78	.396
X-	GLUTEAL FURROW HEIGHT	80.37	4.42	.28*Y	+	67.032	4.06	

TABLE 45

A BIVARIATE FREQUENCY TABLE FOR HEAD CIRCUMFERENCE AND HEAD LENGTH

HEAD CIRCUMFERENCE

	51.50	52.0	52.50	53.0	53.50	54.0	54.50	55.0	55.50	56.0	56.50	57.0	57.50	58.0	58.50	59.0	59.50	60.0	60.50	TOTALS
21.45															1					1
21.25																1	1			2
21.05															1			1		2
20.85												1		4						5
20.65												1	1			4			1	7
20.45											1	4	3	2	3	4	1			18
20.25										1	3	4	3	1	1					13
20.05										3	3	5	2	2	2					17
19.85									3	3	4	6	4	3			1			24
19.65						1	1		9	6	4	4	2	1	1					29
19.45				1			3	5	9	9	10	2	5		2					46
19.25				1		1	5	5	11	6	8	4								41
19.05				1		4	5	4	8	2	1		2							27
18.85			1		4	3	1	2	2	2	1	1								17
18.65			1			3	5	5												14
18.45					2		2		1											5
18.25		1			2	1		2		1										7
18.05		1	2	1	1	1														6
17.85		1	1	1																3
17.65		1																		1
17.45	1																			1
17.25																				0
17.05																				0
16.85			1																	1
TOTALS	1	4	6	5	9	14	22	23	43	33	35	32	22	13	11	9	3	1	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS			SE-EST	R
Y-	HEAD LENGTH	19.47	.70	.35*X	-	.134	.40	.819
X-	HEAD CIRCUMFERENCE	56.01	1.63	1.90*Y	+	19.017	.93	

TABLE 46

A BIVARIATE FREQUENCY TABLE FOR
HEAD CIRCUMFERENCE AND HEAD BREADTH

HEAD CIRCUMFERENCE

	51 .50	52 .0	52 .50	53 .0	53 .50	54 .0	54 .50	55 .0	55 .50	56 .0	56 .50	57 .0	57 .50	58 .0	58 .50	59 .0	59 .50	60 .0	60 .50	TOTALS
16.75															1					1
16.55													1		1				1	3
16.35										1							1			2
16.15												1		2						3
15.95									1		2		1		1	2				7
15.75								1	2		3	0	3	1	1	2	1			20
15.55						1		2	3	3	4	7	5	2	4	1	1	1		34
15.35						1	2	1	3	5	2	3	3	3		1				24
15.15			1				3	9	7	10	11	3	3	3	1	2				53
14.95				1	2	1	3	3	13	4	5	1	2	1	2	1				39
14.75				1	2	4	3	5	5	5	3	7	4							39
14.55		2	1		3	2	4		4	3	2	3		1						25
14.35			2	1	1	2	2		3	2	2									15
14.15		2	1	1	1	1	4	2	2		1	1								16
13.95	1			1		1	1													4
13.75			1			1														2
TOTALS	1	4	6	5	9	14	22	23	43	33	35	32	22	13	11	9	3	1	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS		SE-EST	R
Y-	HEAD BREADTH	15.06	.54	.20*X	+	3.854	.43	.599
X-	HEAD CIRCUMFERENCE	56.01	1.63	1.82*Y	+	28.606	1.30	

TABLE 47

A BIVARIATE FREQUENCY TABLE FOR
HEAD LENGTH AND HEAD BREADTH

HEAD LENGTH

	16 .85	17 . 5	17 .25	17 .45	17 .65	17 .85	18 . 5	18 .25	18 .45	18 .65	18 .85	19 . 5	19 .25	19 .45	19 .65	19 .85	20 . 5	20 .25	20 .45	20 .65	20 .85	21 . 5	21 .25	21 .45	TOTALS
16.75														1											1
16.55												1		1						1					3
16.35											1					1									2
16.15													1			1	1								3
15.95									1			1	1	1	1				2						7
15.75										1	2	1	3	4	2	2	1		2	1	1				20
15.55							1	1			1	5	5	3	3	2	4	2	4	1		1	1		34
15.35								1	1	2		2	3	4	4	2	1	1		2	1				24
15.15	1							1	1	5	2	4	8	10	4	7	3	2	3	1	1				53
14.95						1	1		1	2	3	5	7	6	6		2	1	1			1	1	1	39
14.75							1		1	2	3	1	6	7	3	6	3	3	3						39
14.55					1	1	1	3		1	1	3	1		4	2		3	1	1	2				25
14.35						1					3	1	2	4	1		2	1							15
14.15							2	1			1	1	4	4		1			2						16
13.95				1								2		1											4
13.75										1					1										2
TOTALS	1	0	0	1	1	3	6	7	5	14	17	27	41	46	29	24	17	13	18	7	5	2	2	1	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	HEAD BREADTH	15.06	.54	.13*X + 12.525	.53	.171
X-	HEAD LENGTH	19.47	.70	.22*Y + 16.156	.69	

TABLE 48

A BIVARIATE FREQUENCY TABLE FOR
CHEST CIRCUMFERENCE AND WAIST CIRCUMFERENCE/NATURAL

CHEST CIRCUMFERENCE

	78 .75	80 .75	82 .75	84 .75	86 .75	88 .75	90 .75	92 .75	94 .75	96 .75	98 .75	100 .75	102 .75	104 .75	106 .75	108 .75	110 .75	TOTALS
107.75															1			1
105.75																	1	1
103.75														1			1	2
101.75																	1	1
99.75												1				1		2
97.75														1				1
95.75												1	1		3			5
93.75											1		3	3	1		1	9
91.75												2	2	1	1	2		8
89.75										4	1	1						6
87.75									1	2		2	1					6
85.75					1				5	2	6	1	4					19
83.75						1	1			3	5	2			1			13
81.75						2	1	3	2	2	1	2						13
79.75					1	1	6	4	4	3	2	1	2					24
77.75				1	1	1	6	5	3	2	2							21
75.75			1	5	6	12	10	4	9	3			1					51
73.75		1		3	6	11	10	6	5	1								43
71.75			1	8	4	8	4	2										27
69.75			1	5	5	4		1										16
67.75		2	2	4	3	1	1											13
65.75	1	1		2														4
63.75	1																	1
TOTALS	2	4	5	28	27	41	59	25	29	22	18	13	14	6	7	3	4	287

SUMMARY STATISTICS

	MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-WAIST CIRCUMFERENCE/NATURAL	78.68	8.04	1.04*X - 17.943	4.22	.851
X- CHEST CIRCUMFERENCE	92.90	6.60	.70*Y + 37.830	3.46	

TABLE 49

A BIVARIATE FREQUENCY TABLE FOR
HAND LENGTH AND PALM LENGTH

HAND LENGTH

	16.0	16.50	17.0	17.50	18.0	18.50	19.0	19.50	20.0	20.50	21.0	21.50	TOTALS
12.05										2	1	2	5
11.85									1	8	2		11
11.65								2	5	1	1		9
11.45							1	2	4	5	1		13
11.25							2	11	8	4	1		26
11.05						2	11	19	13	2			47
10.85					3	8	11	14		1			37
10.65					3	10	13	8	1				35
10.45					10	9	10	3					32
10.25				5	11	8	2						26
10.05				5	10	2	1						18
9.85			2	9	7								18
9.65			2	2	1								5
9.45		1	1										2
9.25		1											1
9.05	1	1											2
TOTALS	1	3	5	21	45	39	51	59	32	23	6	2	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	PALM LENGTH	10.75	.58	.33*X + .680	.26	.894
X-	HAND LENGTH	19.00	.99	1.52*Y + 2.660	.44	

TABLE 50

A BIVARIATE FREQUENCY TABLE FOR
HAND LENGTH AND HAND CIRCUMFERENCE

HAND LENGTH

	16.0	16.50	17.0	17.50	18.0	18.50	19.0	19.50	20.0	20.50	21.0	21.50	TOTALS
24.00							1		1				2
23.50										2			2
23.00								4	5	2	1	1	13
22.50							1	3	3	5	1	1	14
22.00					2	6	11	6	9	6	4		44
21.50				2	9	6	11	12	7	3			50
21.00		1	1	4	4	8	13	20	3	3			57
20.50			1	5	10	7	6	10	2	2			43
20.00		1	1	8	11	8	6	3	1				39
19.50			1	1	7	4	2	1	1				17
19.00		1		1	1								3
18.50	1		1										2
18.00					1								1
TOTALS	1	3	5	21	45	39	51	59	32	23	6	2	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	HAND CIRCUMFERENCE	21.11	1.00	.59*X + 9.901	.81	.585
X-	HAND LENGTH	19.00	.99	.58*Y + 6.756	.80	

TABLE 51

A BIVARIATE FREQUENCY TABLE FOR
HAND LENGTH AND HAND BREADTH

HAND LENGTH

HAND BREADTH	16.0	16.50	17.0	17.50	18.0	18.50	19.0	19.50	20.0	20.50	21.0	21.50	TOTALS
10.00									1				1
9.90									1				1
9.80								3	2	2			7
9.70							1		2	2	1	1	7
9.60								1	1	3	1	1	7
9.50							1	3	4	4	1		13
9.40						3	3	2	1	2			11
9.30					1	3	4	4	5		2		19
9.20				2	2	2	3	2	5	2	1		19
9.10				1	6	2	6	7	2	2			26
9.00				1	4	2	10	2	2	2			23
8.90				1	2	4	5	14	2	1			29
8.80				1	2	3	4	7		1			18
8.70			2	6	2	4	4	6		1			25
8.60		1		2	8	6	4	3	2	1			27
8.50				2	1	6	4	2	1				16
8.40			1	2	6	1		1					11
8.30		1	1	1	4	1	1	2					11
8.20				1	5	2	1		1				10
8.10					1								1
8.00		1											1
7.90	1		1										2
7.80				1	1								2
TOTALS	1	3	5	21	45	39	51	59	32	23	6	2	287

SUMMARY STATISTICS

		MEAN	STD DEV	REGRESSION EQUATIONS	SE-EST	R
Y-	HAND BREADTH	8.92	.43	.26*X + 3.983	.34	.594
X-	HAND LENGTH	19.00	.99	1.37*Y + 6.776	.79	

INDEX BY NAME, ANATOMICAL LOCATION, AND MEASUREMENT TECHNIQUE

INDEX BY NAME, ANATOMICAL LOCATION, AND MEASUREMENT TECHNIQUE

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